Disclaimer

The following report(s) provides findings from an FDA-initiated query using Sentinel. While Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Sentinel, and seeking to better understand Sentinel capabilities.

Data obtained through Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from Sentinel in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does not mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

The following report contains a description of the request, request specifications, and results from the modular program run(s).

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Overview for Request: cder_mp2p_wp065

Request ID: cder_mpl2p_wp065_nsdp_v02

Request Description: In this report we examined the association between use of calcitonin gene-related peptide (CGRP) inhibitors, including (1) small molecule CGRP antagonists and (2) large monoclonal antibodies (mAbs), versus (1) onabotulinum toxin and (2) triptans or dihydroergotamine (DHE) with gastrointestinal (GI) hypomotility-related events and intentional self-harm among patients with migraine in the Sentinel Distributed Database (SDD).

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module and Propensity Score Analysis (PSA) tools, version 14.3.0. This is a Type 2 inferential analysis using the PSA module in the Query Request Package (QRP) documentation.

Data Source: We distributed this query to 6 Sentinel Data Partners (DPs) on February 9, 2026. The study period included data from May 1, 2018, to June 30, 2025. Please see Appendix A for a list of dates of available data for each Data Partner.

Study Design: This study used a retrospective, active comparator, new user cohort design. We identified individuals aged 18 years and older with incident use of the exposure (separate cohorts for small molecule CGRP antagonists and mAbs) and comparator drugs (separate cohorts for onabotulinum toxin, and triptans or DHE), from May 1, 2018, to June 30, 2025, and evaluated the occurrence of GI hypomotility-related events and intentional self-harm. We followed patients from their index dispensing until the earlier of the following: outcome of interest, death, treatment discontinuation or switching to another drug of interest, Data Partner end date, query end date, or disenrollment.

To minimize confounding, we conducted a PSA using 1:1 matching of each exposure cohort to each comparator cohort. In each comparison, we estimated the risk of (1) gastrointestinal hypomotility, constipation, or GI dysmotility with serious complications, (2) constipation, (3) paralytic ileus or intestinal obstruction without hernia, and (4) intentional self-harm.

Exposures and Comparators: We defined the exposure and comparator drugs using National Drug Codes (NDCs) and Healthcare Common Procedure Coding System, Level II (HCPCS) codes. We defined incident use as no prior use of any CGRP inhibitor (gepant or mAb) and the specific comparator drug in the 183 days prior to the treatment date. The date of the first eligible treatment served as the index date. Only the first eligible treatment for each member was included; cohort re-entry was not allowed. Please refer to Appendix B for the list of non-proprietary and proprietary names and Appendix C for HCPCS codes of medical products used to define exposures in this request.

Outcomes of Interest: There were three GI hypomotility-related outcomes: an overall GI hypomotility, constipation, or GI dysmotility with serious complications outcome, comprising any inpatient diagnosis of GI hypomotility, constipation, or paralytic ileus without hernia, and one outcome each for inpatient diagnosis of constipation and paralytic ileus or intestinal obstruction without hernia. An outcome was considered valid only if: during the hospitalization period, there was no diagnosis of colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions, or epigastric /upper quadrant pain along with intestinal obstruction; and there were no major abdominal surgeries performed during the two week period prior to the hospitalization through the end of hospitalization.

Intentional self-harm was defined as a primary position inpatient psychiatric diagnosis—including depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder—and a concurrent inpatient or emergency department diagnosis of self-harm (poisoning, toxicity of a substance chiefly non-medical in nature; asphyxiation; or open wound to the elbow, wrist, or forearm).

Please see Appendix D for a list of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis and International Classification of Diseases Procedure Coding System (ICD-10-PCS) codes used to define the outcomes in this query.

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Cohort Eligibility Criteria: We required members to be enrolled in health plans with medical and drug coverage in the 183 days prior to their index date. A gap in coverage of up to 45 days was allowed and treated as continuous enrollment. We defined incident use as no prior use of any CGRP inhibitor (gepant or mAb) and the specific comparator drug in the 183 days prior to the treatment date.

The following age groups were included in the cohort: 18-29 years, 30-39 years, 40-49 years, 50-59 years, 60+ years. All individuals were required to have evidence of migraine prior to cohort entry. Evidence of migraine was defined as presence of any of the following:

a) ≥2 migraine diagnoses (-183,0), or
b) ≥1 migraine diagnoses (-183,0) and a Triptan dispensing during study period, or
c) ≥1 migraine diagnoses and a neurology encounter (-183, 0; identified using Provider Specialty Codes within the SCDM Provider Table via plus programming)

We excluded individuals with a diagnosis code for cancer (except non-melanoma skin cancer) in the 183 days prior to the index date using ICD-10-CM diagnosis codes. For the GI hypomotility-related outcomes only, we excluded individuals with a diagnosis of certain GI related illnesses, such as Crohn's disease, ulcerative colitis, other colitis, irritable bowel syndrome, and other functional intestinal disorders; or with an inpatient diagnosis of GI hypomotility, constipation, or paralytic ileus without hernia in the 183 days prior to the index date. For the intentional self-harm outcome, we excluded individuals with a diagnosis of traumatic brain injury, an inpatient psychiatric diagnosis in the primary position, or an inpatient or emergency department diagnosis of self-harm.

Please see Appendix E for the list of ICD-10-CM codes, Appendix F for the list of proprietary and non-proprietary names of medical products, and Appendix G for the list of Provider Specialty Codes used to define cohort eligibility in this query.

Follow-up Time: We created CGRP inhibitor and comparator drug exposure episodes based on the number of days of product supplied per dispensing in the pharmacy dispensing data. For the small molecule CGRP antagonists vs. onabotulinum toxin and small molecule CGRP antagonists vs. triptans/DHE comparisons, we bridged together episodes less than or equal to 45 days apart and added 45 days to the end of each episode. For the mAbs vs. onabotulinum toxin and mAbs vs. triptans/DHE comparisons, we bridged together episodes less than or equal to 120 days apart and added 120 days to the end of each episode. Follow-up began on the day of index (Day 0) and continued until the first occurrence of any of the following: 1) an outcome of interest; 2) death; 3) treatment discontinuation or switching (from exposure to comparator drug, or vice versa); 4) disenrollment from medical and/or pharmacy coverage; 5) the end of the data provided by each Data Partner; or 6) the end of the query period.

Baseline Characteristics: Age, sex, race, ethnicity, calendar year, and calendar year-quarter were assessed on the index date. Additionally, we evaluated the following health characteristics in the 183 days prior to the day of index: acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/nonischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disease/bronchiectasis, osteoporosis, depression/bipolar/other mood disorders, hypothyroidism, pneumonia, Parkinson's disease, non-Alzheimer's dementia, sleep disorder, substance use disorder, anxiety, behavioral disorders, sympathomimetics/alpha-1 agonists, ergot derivatives/methysergide, triptans/ditans, antihypertensives, major surgical procedures, benign prostatic hyperplasia, BMI obese/overweight, other psychological disorders, and medical product use/health care utilization metrics.

Propensity Score Estimation: We included the following characteristics in the propensity score estimation models: age, sex, race year of index, acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/nonischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disease/bronchiectasis, osteoporosis, depression/bipolar/other mood disorders, hypothyroidism, pneumonia, Parkinson's disease, non-Alzheimer's dementia, sleep disorder, substance use disorder, anxiety, behavioral disorders, sympathomimetics/alpha-1 agonists, ergot derivatives/methysergide, triptans/ditans (only for comparisons with onabotulinum toxin as the comparator drug), antihypertensives, major surgical procedure, benign prostatic hyperplasia, BMI obese/overweight, and other psychological disorders.

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Please see Appendix H for the ICD-10-CM codes, Appendix I for ICD-10-PCS, Current Procedural Terminology, Fourth Edition (CPT-4), and HCPCS codes, and Appendix J for the non-proprietary and proprietary names of medical products used to define baseline characteristics in this query. **Matching:** The matching ratio for the propensity score was 1:1. Drug episodes in the exposed and comparator cohorts were nearest neighbor matched without replacement. The matching caliper was 0.05. Please see Appendices K-N for the specifications of parameters used in this request and Appendix O for the design diagram. **Limitations:** Algorithms used to define exposures and inclusion and exclusion criteria are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with these limitations in mind. **Notes:** Please contact the Sentinel Operations Center (info@sentinelsystem.org) for questions and to provide comments/suggestions for future enhancements to this document. For more information on Sentinel's routine querying modules, please refer to the documentation (https://dev.sentinelsystem.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse).

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Glossary of Terms for Analyses Using
Cohort Identification and Descriptive Analysis (CIDA) Module*

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing.
Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.
Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter.

- **Ambulatory Visit (AV) -** includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital encounters, but excludes emergency department encounters.
- **Emergency Department (ED) -** includes ED encounters that become inpatient stays (in which case inpatient stays would be a separate encounter). Excludes urgent care visits.
- **Inpatient Hospital Stay (IP) -** includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the discharge is after the admission date.
- **Non-Acute Institutional Stay (IS) -** includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital dialysis and other non-hospital stays.
- **Other Ambulatory Visit (OA) -** includes other non overnight AV encounters such as hospice visits, home health visits, skilled nursing facility visits, other non-hospital visits, as well as telemedicine, telephone and email consultations.

Charlson/Elixhauser Combined Comorbidity Score - calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (e.g., in the 183 days prior to index).
Code Days - the minimum number of times the diagnosis must be found during the evaluation period in order to fulfill the algorithm to identify the corresponding patient characteristic.
Cohort Definition (drug/exposure) - indicates how the cohort will be defined: 01: Cohort includes only the first valid treatment episode during the query period; 02: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period until an event occurs.
Computed Start Marketing Date - represents the first observed dispensing date among all valid users within a GROUP (scenario) within each Data Partner site.
Days Supplied - number of days supplied for all dispensings in qualifying treatment episodes.
Eligible Members - number of members eligible for an incident treatment episode (defined by the drug/exposure and event washout periods) with drug and medical coverage during the query period.
Enrollment Gap - number of days allowed between two consecutive enrollment periods without breaking a “continuously enrolled” sequence.
Episodes - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode gap.
Episode Gap - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment episode.
Event Deduplication - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).
Exposure Episode Length - number of days after exposure initiation that is considered "exposed time."
Exposure Extension Period - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions are added after any episode gaps have been bridged.
Lookback Period - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).
Maximum Episode Duration - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Glossary of Terms for Analyses Using
Cohort Identification and Descriptive Analysis (CIDA) Module*

Member-Years - sum of all days of enrollment with medical and drug coverage in the query period preceded by an exposure washout period all divided by 365.25.
Minimum Days Supplied - specifies a minimum number of days in length of the days supplied for the episode to be considered.

Minimum Episode Duration - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.
Monitoring Period - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.
Principal Diagnosis (PDX) - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.
Query Period - period in which the modular program looks for exposures and outcomes of interest.
Switch Evaluation Step Value - value used to differentiate evaluation step. Each switch pattern can support up to 2 evaluation steps (0 = switch pattern evaluation start; 1 = first evaluation; 2 = second evaluation).
Switch Gap Inclusion Indicator - indicator for whether gaps in treatment episodes that are included in a switch episode will be counted as part of the switch episode duration.
Switch Pattern Cohort Inclusion Date - indicates which date to use for inclusion into the switch pattern cohort of interest as well as optionally as the index date of the treatment episode initiating the switch pattern. Valid options are the product approval date, product marketing date, other requester defined date, or computed start marketing date.
Switch Pattern Cohort Inclusion Strategy - indicates how the switch pattern cohort inclusion date will be used: 01: used only as a switch cohort entry date. First treatment episode dispensing date is used as index for computing time to first switch; 02: used as switch cohort entry date and as initial switch step index date for computing time to first switch.

Treatment Episode Truncation Indicator - indicates whether the exposure episode will be truncated at the occurrence of a requester-specified code.
Washout Period (drug/exposure) - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.
Washout Period (event/outcome) - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.
Years at Risk - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

*all terms may not be used in this report

Glossary of Terms for Analyses Using Propensity Score Analysis (PSA) Module*

Covariate - requester defined binary variable to include in the propensity score estimation model (e.g., diabetes, heart failure, etc.) during requester-defined lookback period. Requester may also choose to add any of the following categorical, continuous, or count metrics to the propensity score estimation model:

1. **Age (continuous)**
2. **Sex**
3. **Time period (i.e., monitoring period for sequential analyses)**
4. **Year of exposure**
5. **Comorbidity score**
6. **Medical utilization – number of inpatient stays**
7. **Medical utilization – number of institutional stays**
8. **Medical utilization – number of emergency department visits**
9. **Medical utilization – number of outpatient visits**
10. **Health care utilization – number of other ambulatory encounters (e.g., telemedicine, email consults)**
11. **Drug utilization – number of dispensings**
12. **Drug utilization – number of unique Non-Proprietarys dispensed**
13. **Drug Utilization – number of unique drug classes dispensed**

Covariate Evaluation Window - specified number of days relative to index date to evaluate the occurrence of covariates of interest. Note: members are required to have continuous enrollment during the covariate evaluation window, regardless of the value included in the "Continuous enrollment before exposure" field.

Individual Level Data Return - program may return individual-level, de-identified datasets to the Sentinel Operations Center (SOC). While the datasets contain a single row per patient for each specified analysis, patient identifiers such as a patient ID are not included in the output. Individual-level datasets are returned to the SOC, aggregated, and used to calculate effect estimates via Cox (proportional hazards) regression.

Mahalanobis Distance - provides a measure of balance across all variables while accounting for their correlation.

Matching Caliper - maximum allowed difference in propensity scores between treatment and control patients. Requester may select any caliper (e.g., 0.01, 0.025, and 0.05).

Matching Ratio - patients in exposed and comparator groups are nearest neighbor matched by a 1:1 or 1:n (up to 10) matching ratio.

Matched Conditional and Unconditional Analysis - in a conditional matched analysis, a Cox model, stratified by Data Partner site and matched set, is run on the matched population. This can be done for both the both 1:1 and 1:n matched cohorts. In an unconditional analysis, a Cox model, stratified by Data Partner site only, is run on the matched population. This can be done for the 1:1 matched cohort only.

Propensity Score Stratification - option to stratify propensity scores based on requester-defined percentiles in the unmatched population. In a stratified analysis, a Cox model, stratified by Data Partner site, is run on the stratified population. Note that all patients identified in exposure and comparator cohorts are used in the analysis.

PSM Tool - performs effect estimation by comparing exposure propensity-score matched parallel new user cohorts. Propensity score estimation and matching are conducted within each Sentinel Data Partner site via distributed programming code; data are returned to the SOC, aggregated, and used to calculate effect estimates.

Risk-set Level Data Return - alternative to the patient-level data return approach. In this approach, the PSM tool will produce de-identified, risk-set level datasets instead of or in addition to individual-level output. Whereas each observation in the patient-level datasets represents one patient in the cohort, each observation in the risk set dataset represents one event. Risk sets are created at the Data Partner site, returned to the SOC, aggregated, and used to calculate effect estimates via case-centered logistic regression.

Subgroup Analysis - may be conducted using any requester-defined covariates. Subgroup analyses may be performed in the unmatched and the matched population.

Glossary of Terms for Analyses Using
Propensity Score Analysis (PSA) Module*

Zero Cell Correction - indicator for whether to screen variables with a zero correction added to each cell in the confounder/outcome 2x2 table. Recommended when the number of exposed outcomes is fewer than 150.
*all terms may not be used in this report

Table 1a. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	196,551	100.0%	107,555	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	46.7	13.1	51.8	12.6	-5.142	-0.399
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	29,821	15.2%	9,882	9.2%	5.984	0.184
30-39 years	41,252	21.0%	19,010	17.7%	3.313	0.084
40-49 years	47,194	24.0%	22,672	21.1%	2.932	0.070
50-59 years	37,483	19.1%	20,233	18.8%	0.259	0.007
≥ 60 years	40,801	20.8%	35,758	33.2%	-12.488	-0.284
Sex*						
Female	168,069	85.5%	92,490	86.0%	-0.484	-0.014
Male	28,482	14.5%	15,065	14.0%	0.484	0.014
Race*1						
American Indian or Alaska Native	685	0.3%	761	0.7%	-0.359	-0.050
Asian	2,932	1.5%	1,576	1.5%	0.026	0.002
Black or African American	14,090	7.2%	5,358	5.0%	2.187	0.092
Multi-racial	4,219	2.1%	1,177	1.1%	1.052	0.083
Native Hawaiian or Other Pacific Islander	673	0.3%	382	0.4%	-0.013	-0.002
Unknown	67,390	34.3%	28,471	26.5%	7.815	0.171
White	106,562	54.2%	69,830	64.9%	-10.709	-0.220

Table 1a. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	11,453	5.8%	7,319	6.8%	-0.978	-0.040
No	108,223	55.1%	73,700	68.5%	-13.462	-0.280
Unknown	76,875	39.1%	26,536	24.7%	14.440	0.314
Year*						
2020	15,251	7.8%	27,431	25.5%	-17.745	-0.491
2021	33,059	16.8%	24,994	23.2%	-6.419	-0.161
2022	50,370	25.6%	23,286	21.7%	3.977	0.094
2023	35,980	18.3%	13,489	12.5%	5.764	0.160
2024	43,538	22.2%	13,649	12.7%	9.461	0.251
2025	18,353	9.3%	4,706	4.4%	4.962	0.197
Health Characteristics						
Acute Myocardial Infarction*	1,291	0.7%	601	0.6%	0.098	0.013
Glaucoma*	7,275	3.7%	4,972	4.6%	-0.921	-0.046
Cataract*	11,173	5.7%	8,826	8.2%	-2.522	-0.099
Hip/Pelvic Fracture*	254	0.1%	246	0.2%	-0.099	-0.024
Alzheimer's Disease*	518	0.3%	538	0.5%	-0.237	-0.038
Atrial Fibrillation*	5,232	2.7%	3,519	3.3%	-0.610	-0.036
Diabetes*	25,725	13.1%	16,011	14.9%	-1.798	-0.052
Hyperlipidemia*	60,378	30.7%	35,201	32.7%	-2.010	-0.043
Heart Failure/Non-Ischemic Heart Disease*	5,920	3.0%	4,099	3.8%	-0.799	-0.044
Hypertension*	61,666	31.4%	36,991	34.4%	-3.019	-0.064

Table 1a. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Ischemic Heart Disease*	11,822	6.0%	8,165	7.6%	-1.577	-0.063
Rheumatoid Arthritis/Osteoarthritis*	45,685	23.2%	37,790	35.1%	-11.892	-0.264
Anemia*	21,443	10.9%	13,263	12.3%	-1.422	-0.044
Asthma*	23,075	11.7%	12,986	12.1%	-0.334	-0.010
Chronic Kidney Disease*	10,069	5.1%	6,921	6.4%	-1.312	-0.056
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	13,065	6.6%	8,475	7.9%	-1.233	-0.048
Osteoporosis*	7,424	3.8%	6,904	6.4%	-2.642	-0.120
Depression, Bipolar or Other Mood Disorders*	63,709	32.4%	40,755	37.9%	-5.479	-0.115
Hypothyroidism*	26,872	13.7%	17,863	16.6%	-2.936	-0.082
Pneumonia*	3,896	2.0%	3,167	2.9%	-0.962	-0.062
Parkinson's Disease*	951	0.5%	1,093	1.0%	-0.532	-0.062
Non-Alzheimer's Dementia*	2,063	1.0%	1,992	1.9%	-0.802	-0.067
Sleep Disorder*	29,866	15.2%	18,207	16.9%	-1.733	-0.047
Substance Use Disorder*	23,685	12.1%	15,039	14.0%	-1.932	-0.057
Anxiety*	71,667	36.5%	39,387	36.6%	-0.158	-0.003
Behavioral Disorders*	20,310	10.3%	11,218	10.4%	-0.097	-0.003
Sympathomimetics/Alpha-1 Agonists*	24,201	12.3%	14,569	13.5%	-1.233	-0.037
Ergot Derivatives and Methysergide*	1,071	0.5%	756	0.7%	-0.158	-0.020
Triptans/Ditans*	95,782	48.7%	43,064	40.0%	8.692	0.176
Antihypertensives*	48,796	24.8%	30,151	28.0%	-3.207	-0.073

Table 1a. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Major Surgical Procedure*	10,684	5.4%	8,093	7.5%	-2.089	-0.085
Stroke/Transient Ischemic Attack (TIA)*	12,822	6.5%	5,444	5.1%	1.462	0.063
Benign Prostatic Hyperplasia*	3,008	1.5%	2,798	2.6%	-1.071	-0.075
BMI Overweight/Obese*	44,603	22.7%	18,820	17.5%	5.195	0.130
Other Psychological Disorders*	3,710	1.9%	2,382	2.2%	-0.327	-0.023
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	22.3	20.2	26.5	23.2	-4.209	-0.194
Mean number of Non-Proprietarys dispensed	9.2	5.9	10.1	6.4	-0.917	-0.149
Mean number of unique drug classes dispensed	8.5	5.3	9.4	5.8	-0.876	-0.157
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	12.6	11.4	15.3	13.2	-2.699	-0.219
Mean number of emergency room encounters	0.5	1.4	0.5	1.3	0.044	0.032
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.008	-0.022
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.004	-0.031
Mean number of other ambulatory encounters	3.8	10.3	5.1	13.4	-1.316	-0.110

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1b. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	87,161	44.3%	87,161	81.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	50.5	12.8	50.5	12.7	0.054	0.004
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	9,262	10.6%	8,948	10.3%	0.360	0.012
30-39 years	15,383	17.6%	16,530	19.0%	-1.316	-0.034
40-49 years	19,241	22.1%	19,139	22.0%	0.117	0.003
50-59 years	17,345	19.9%	16,425	18.8%	1.056	0.027
≥ 60 years	25,930	29.7%	26,119	30.0%	-0.217	-0.005
Sex*						
Female	75,148	86.2%	75,081	86.1%	0.077	0.002
Male	12,013	13.8%	12,080	13.9%	-0.077	-0.002
Race*1						
American Indian or Alaska Native	510	0.6%	490	0.6%	0.023	0.003
Asian	1,298	1.5%	1,287	1.5%	0.013	0.001
Black or African American	4,757	5.5%	4,764	5.5%	-0.008	-0.000
Multi-racial	1,109	1.3%	1,118	1.3%	-0.010	-0.001
Native Hawaiian or Other Pacific Islander	315	0.4%	334	0.4%	-0.022	-0.004
Unknown	24,552	28.2%	24,587	28.2%	-0.040	-0.001
White	54,620	62.7%	54,581	62.6%	0.045	0.001

Table 1b. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	5,258	6.0%	6,062	7.0%	-0.922	-0.037
No	57,158	65.6%	57,206	65.6%	-0.055	-0.001
Unknown	24,745	28.4%	23,893	27.4%	0.978	0.022
Year*						
2020	12,891	14.8%	13,170	15.1%	-0.320	-0.009
2021	21,760	25.0%	21,470	24.6%	0.333	0.008
2022	22,000	25.2%	22,066	25.3%	-0.076	-0.002
2023	13,042	15.0%	12,930	14.8%	0.128	0.004
2024	12,939	14.8%	12,956	14.9%	-0.020	-0.001
2025	4,529	5.2%	4,569	5.2%	-0.046	-0.002
Health Characteristics						
Acute Myocardial Infarction*	553	0.6%	525	0.6%	0.032	0.004
Glaucoma*	3,944	4.5%	3,946	4.5%	-0.002	-0.000
Cataract*	6,747	7.7%	6,765	7.8%	-0.021	-0.001
Hip/Pelvic Fracture*	175	0.2%	177	0.2%	-0.002	-0.001
Alzheimer's Disease*	357	0.4%	366	0.4%	-0.010	-0.002
Atrial Fibrillation*	2,844	3.3%	2,805	3.2%	0.045	0.003
Diabetes*	12,636	14.5%	12,553	14.4%	0.095	0.003
Hyperlipidemia*	27,990	32.1%	28,020	32.1%	-0.034	-0.001
Heart Failure/Non-Ischemic Heart Disease*	3,190	3.7%	3,170	3.6%	0.023	0.001

Table 1b. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Hypertension*	29,399	33.7%	29,297	33.6%	0.117	0.002
Ischemic Heart Disease*	6,242	7.2%	6,178	7.1%	0.073	0.003
Rheumatoid Arthritis/Osteoarthritis*	27,859	32.0%	27,888	32.0%	-0.033	-0.001
Anemia*	10,314	11.8%	10,315	11.8%	-0.001	-0.000
Asthma*	10,628	12.2%	10,601	12.2%	0.031	0.001
Chronic Kidney Disease*	5,355	6.1%	5,433	6.2%	-0.089	-0.004
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	6,667	7.6%	6,710	7.7%	-0.049	-0.002
Osteoporosis*	4,990	5.7%	4,973	5.7%	0.020	0.001
Depression, Bipolar or Other Mood Disorders*	32,147	36.9%	31,963	36.7%	0.211	0.004
Hypothyroidism*	13,822	15.9%	13,932	16.0%	-0.126	-0.003
Pneumonia*	2,201	2.5%	2,186	2.5%	0.017	0.001
Parkinson's Disease*	722	0.8%	696	0.8%	0.030	0.003
Non-Alzheimer's Dementia*	1,394	1.6%	1,382	1.6%	0.014	0.001
Sleep Disorder*	14,457	16.6%	14,446	16.6%	0.013	0.000
Substance Use Disorder*	11,972	13.7%	12,038	13.8%	-0.076	-0.002
Anxiety*	32,168	36.9%	32,171	36.9%	-0.003	-0.000
Behavioral Disorders*	9,201	10.6%	9,191	10.5%	0.011	0.000
Sympathomimetics/Alpha-1 Agonists*	11,675	13.4%	11,696	13.4%	-0.024	-0.001
Ergot Derivatives and Methysergide*	581	0.7%	606	0.7%	-0.029	-0.003
Triptans/Ditans*	36,447	41.8%	36,546	41.9%	-0.114	-0.002
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**

Table 1b. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Antihypertensives*	23,878	27.4%	23,803	27.3%	0.086	0.002
Major Surgical Procedure*	6,075	7.0%	6,029	6.9%	0.053	0.002
Stroke/Transient Ischemic Attack (TIA)*	4,819	5.5%	4,833	5.5%	-0.016	-0.001
Benign Prostatic Hyperplasia*	1,955	2.2%	1,923	2.2%	0.037	0.002
BMI Overweight/Obese*	15,975	18.3%	16,072	18.4%	-0.111	-0.003
Other Psychological Disorders*	1,906	2.2%	1,924	2.2%	-0.021	-0.001
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	25.7	22.4	25.5	22.6	0.250	0.011
Mean number of Non-Proprietarys dispensed	10.1	6.2	9.9	6.4	0.197	0.031
Mean number of unique drug classes dispensed	9.4	5.6	9.2	5.7	0.164	0.029
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.9	12.2	15.1	13.2	-1.204	-0.095
Mean number of emergency room encounters	0.6	1.4	0.5	1.4	0.064	0.046
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.001	-0.003
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.001	-0.006
Mean number of other ambulatory encounters	4.5	11.8	5.0	13.1	-0.447	-0.036

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1c. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	107,666	100.0%	1,236,315	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.9	13.3	43.6	12.8	5.368	0.412
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,257	12.3%	286,445	23.2%	-10.856	-0.287
30-39 years	20,187	18.7%	296,295	24.0%	-5.216	-0.128
40-49 years	24,652	22.9%	248,731	20.1%	2.778	0.068
50-59 years	21,912	20.4%	175,959	14.2%	6.119	0.162
≥ 60 years	27,658	25.7%	228,885	18.5%	7.175	0.174
Sex*						
Female	91,260	84.8%	1,033,045	83.6%	1.204	0.033
Male	16,406	15.2%	203,270	16.4%	-1.204	-0.033
Race*1						
American Indian or Alaska Native	426	0.4%	8,432	0.7%	-0.286	-0.039
Asian	1,544	1.4%	23,500	1.9%	-0.467	-0.036
Black or African American	8,551	7.9%	103,666	8.4%	-0.443	-0.016
Multi-racial	2,043	1.9%	19,073	1.5%	0.355	0.027
Native Hawaiian or Other Pacific Islander	317	0.3%	5,247	0.4%	-0.130	-0.022
Unknown	34,657	32.2%	454,095	36.7%	-4.540	-0.096
White	60,128	55.8%	622,302	50.3%	5.512	0.111

Table 1c. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	6,452	6.0%	111,604	9.0%	-3.035	-0.115
No	62,504	58.1%	703,168	56.9%	1.177	0.024
Unknown	38,710	36.0%	421,543	34.1%	1.857	0.039
Year*						
2020	8,806	8.2%	307,580	24.9%	-16.700	-0.461
2021	18,168	16.9%	303,094	24.5%	-7.642	-0.189
2022	27,123	25.2%	286,758	23.2%	1.997	0.047
2023	20,208	18.8%	141,631	11.5%	7.313	0.205
2024	23,550	21.9%	141,857	11.5%	10.399	0.282
2025	9,811	9.1%	55,395	4.5%	4.632	0.185
Health Characteristics						
Acute Myocardial Infarction*	924	0.9%	2,990	0.2%	0.616	0.083
Glaucoma*	4,856	4.5%	31,559	2.6%	1.958	0.106
Cataract*	7,555	7.0%	53,151	4.3%	2.718	0.118
Hip/Pelvic Fracture*	186	0.2%	1,276	0.1%	0.070	0.019
Alzheimer's Disease*	402	0.4%	1,546	0.1%	0.248	0.050
Atrial Fibrillation*	4,108	3.8%	15,649	1.3%	2.550	0.163
Diabetes*	17,901	16.6%	107,073	8.7%	7.966	0.241
Hyperlipidemia*	38,784	36.0%	250,546	20.3%	15.757	0.356
Heart Failure/Non-Ischemic Heart Disease*	4,783	4.4%	17,574	1.4%	3.021	0.180
Hypertension*	40,951	38.0%	262,877	21.3%	16.772	0.374

Table 1c. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Ischemic Heart Disease*	9,561	8.9%	30,849	2.5%	6.385	0.278
Rheumatoid Arthritis/Osteoarthritis*	30,110	28.0%	188,815	15.3%	12.694	0.312
Anemia*	13,740	12.8%	85,420	6.9%	5.852	0.197
Asthma*	14,204	13.2%	111,206	9.0%	4.198	0.134
Chronic Kidney Disease*	7,306	6.8%	37,512	3.0%	3.752	0.174
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,855	8.2%	55,144	4.5%	3.764	0.155
Osteoporosis*	5,051	4.7%	34,048	2.8%	1.937	0.102
Depression, Bipolar or Other Mood Disorders*	37,847	35.2%	301,071	24.4%	10.800	0.238
Hypothyroidism*	16,669	15.5%	117,489	9.5%	5.979	0.182
Pneumonia*	2,491	2.3%	18,877	1.5%	0.787	0.057
Parkinson's Disease*	710	0.7%	2,542	0.2%	0.454	0.069
Non-Alzheimer's Dementia*	1,637	1.5%	5,848	0.5%	1.047	0.106
Sleep Disorder*	17,925	16.6%	106,910	8.6%	8.001	0.242
Substance Use Disorder*	14,580	13.5%	133,899	10.8%	2.711	0.083
Anxiety*	40,803	37.9%	318,056	25.7%	12.172	0.264
Behavioral Disorders*	11,371	10.6%	93,406	7.6%	3.006	0.105
Sympathomimetics/Alpha-1 Agonists*	14,079	13.1%	107,742	8.7%	4.362	0.140
Ergot Derivatives and Methysergide*	281	0.3%	1,756	0.1%	0.119	0.027
Triptans/Ditans	297	0.3%	148	0.0%	0.264	0.070
Antihypertensives*	31,310	29.1%	225,748	18.3%	10.821	0.257

Table 1c. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Major Surgical Procedure*	6,935	6.4%	58,539	4.7%	1.706	0.074
Stroke/Transient Ischemic Attack (TIA)*	9,923	9.2%	20,982	1.7%	7.519	0.336
Benign Prostatic Hyperplasia*	2,128	2.0%	12,261	1.0%	0.985	0.082
BMI Overweight/Obese*	26,007	24.2%	180,943	14.6%	9.520	0.243
Other Psychological Disorders*	2,407	2.2%	19,820	1.6%	0.632	0.046
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	23.0	21.1	13.5	16.0	9.444	0.505
Mean number of Non-Proprietarys dispensed	9.3	6.1	5.9	5.1	3.372	0.597
Mean number of unique drug classes dispensed	8.7	5.6	5.6	4.7	3.129	0.610
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.0	11.9	8.7	10.6	5.227	0.463
Mean number of emergency room encounters	0.6	1.5	0.5	1.2	0.104	0.077
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.3	0.030	0.089
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	0.003	0.025
Mean number of other ambulatory encounters	4.3	11.5	3.2	10.6	1.092	0.099

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1d. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	107,477	99.8%	107,477	8.7%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.9	13.3	49.0	13.9	-0.088	-0.006
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,255	12.3%	14,609	13.6%	-1.260	-0.038
30-39 years	20,182	18.8%	20,030	18.6%	0.141	0.004
40-49 years	24,627	22.9%	22,410	20.9%	2.063	0.050
50-59 years	21,852	20.3%	20,510	19.1%	1.249	0.031
≥ 60 years	27,561	25.6%	29,918	27.8%	-2.193	-0.050
Sex*						
Female	91,113	84.8%	91,429	85.1%	-0.294	-0.008
Male	16,364	15.2%	16,048	14.9%	0.294	0.008
Race*1						
American Indian or Alaska Native	426	0.4%	414	0.4%	0.011	0.002
Asian	1,544	1.4%	1,447	1.3%	0.090	0.008
Black or African American	8,523	7.9%	8,518	7.9%	0.005	0.000
Multi-racial	2,043	1.9%	2,089	1.9%	-0.043	-0.003
Native Hawaiian or Other Pacific Islander	317	0.3%	336	0.3%	-0.018	-0.003
Unknown	34,604	32.2%	34,400	32.0%	0.190	0.004

Table 1d. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
White	60,020	55.8%	60,273	56.1%	-0.235	-0.005
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	6,445	6.0%	7,070	6.6%	-0.582	-0.024
No	62,371	58.0%	62,413	58.1%	-0.039	-0.001
Unknown	38,661	36.0%	37,994	35.4%	0.621	0.013
Year*						
2020	8,806	8.2%	8,189	7.6%	0.574	0.021
2021	18,162	16.9%	17,673	16.4%	0.455	0.012
2022	27,098	25.2%	27,518	25.6%	-0.391	-0.009
2023	20,171	18.8%	20,249	18.8%	-0.073	-0.002
2024	23,467	21.8%	23,934	22.3%	-0.435	-0.010
2025	9,773	9.1%	9,914	9.2%	-0.131	-0.005
Health Characteristics						
Acute Myocardial Infarction*	910	0.8%	856	0.8%	0.050	0.006
Glaucoma*	4,832	4.5%	4,888	4.5%	-0.052	-0.003
Cataract*	7,526	7.0%	7,483	7.0%	0.040	0.002
Hip/Pelvic Fracture*	181	0.2%	189	0.2%	-0.007	-0.002
Alzheimer's Disease*	398	0.4%	403	0.4%	-0.005	-0.001
Atrial Fibrillation*	4,043	3.8%	3,908	3.6%	0.126	0.007
Diabetes*	17,805	16.6%	17,789	16.6%	0.015	0.000
Hyperlipidemia*	38,616	35.9%	38,483	35.8%	0.124	0.003

Table 1d. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Heart Failure/Non-Ischemic Heart Disease*	4,722	4.4%	4,632	4.3%	0.084	0.004
Hypertension*	40,774	37.9%	40,808	38.0%	-0.032	-0.001
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Ischemic Heart Disease*	9,440	8.8%	9,026	8.4%	0.385	0.014
Rheumatoid Arthritis/Osteoarthritis*	29,990	27.9%	30,196	28.1%	-0.192	-0.004
Anemia*	13,657	12.7%	13,641	12.7%	0.015	0.000
Asthma*	14,144	13.2%	14,172	13.2%	-0.026	-0.001
Chronic Kidney Disease*	7,243	6.7%	7,285	6.8%	-0.039	-0.002
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,798	8.2%	8,926	8.3%	-0.119	-0.004
Osteoporosis*	5,040	4.7%	5,079	4.7%	-0.036	-0.002
Depression, Bipolar or Other Mood Disorders*	37,737	35.1%	37,924	35.3%	-0.174	-0.004
Hypothyroidism*	16,606	15.5%	16,576	15.4%	0.028	0.001
Pneumonia*	2,480	2.3%	2,495	2.3%	-0.014	-0.001
Parkinson's Disease*	697	0.6%	682	0.6%	0.014	0.002
Non-Alzheimer's Dementia*	1,616	1.5%	1,582	1.5%	0.032	0.003
Sleep Disorder*	17,843	16.6%	18,000	16.7%	-0.146	-0.004
Substance Use Disorder*	14,538	13.5%	14,439	13.4%	0.092	0.003
Anxiety*	40,681	37.9%	41,132	38.3%	-0.420	-0.009
Behavioral Disorders*	11,353	10.6%	11,399	10.6%	-0.043	-0.001
Sympathomimetics/Alpha-1 Agonists*	14,038	13.1%	14,129	13.1%	-0.085	-0.003

Table 1d. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Ergot Derivatives and Methysergide*	279	0.3%	290	0.3%	-0.010	-0.002
Triptans/Ditans	296	0.3%	22	0.0%	0.255	0.066
Antihypertensives*	31,192	29.0%	31,052	28.9%	0.130	0.003
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Major Surgical Procedure*	6,901	6.4%	6,865	6.4%	0.033	0.001
Stroke/Transient Ischemic Attack (TIA)*	9,740	9.1%	8,733	8.1%	0.937	0.033
Benign Prostatic Hyperplasia*	2,114	2.0%	2,160	2.0%	-0.043	-0.003
BMI Overweight/Obese*	25,904	24.1%	26,220	24.4%	-0.294	-0.007
Other Psychological Disorders*	2,399	2.2%	2,385	2.2%	0.013	0.001
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	22.9	21.1	18.7	19.5	4.271	0.210
Mean number of Non-Proprietarys dispensed	9.3	6.1	7.9	6.0	1.398	0.230
Mean number of unique drug classes dispensed	8.7	5.5	7.4	5.5	1.313	0.239

Table 1d. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.9	11.9	11.4	12.1	2.512	0.210
Mean number of emergency room encounters	0.6	1.5	0.6	1.6	-0.023	-0.015
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.4	-0.021	-0.052
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.008	-0.055
Mean number of other ambulatory encounters	4.3	11.5	4.0	11.3	0.285	0.025

[*]Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1e. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	202,186	100.0%	146,642	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	45.7	12.6	50.9	12.7	-5.196	-0.411
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	31,016	15.3%	14,012	9.6%	5.785	0.176
30-39 years	44,532	22.0%	27,217	18.6%	3.465	0.086
40-49 years	51,451	25.4%	32,615	22.2%	3.206	0.075
50-59 years	39,310	19.4%	28,156	19.2%	0.242	0.006
≥ 60 years	35,877	17.7%	44,642	30.4%	-12.698	-0.300
Sex*						
Female	172,864	85.5%	125,925	85.9%	-0.375	-0.011
Male	29,322	14.5%	20,717	14.1%	0.375	0.011
Race*1						
American Indian or Alaska Native	1,042	0.5%	1,152	0.8%	-0.270	-0.034
Asian	1,875	0.9%	2,057	1.4%	-0.475	-0.044
Black or African American	13,799	6.8%	7,398	5.0%	1.780	0.075
Multi-racial	2,517	1.2%	1,480	1.0%	0.236	0.022
Native Hawaiian or Other Pacific Islander	676	0.3%	505	0.3%	-0.010	-0.002
Unknown	64,116	31.7%	39,512	26.9%	4.767	0.105
White	118,161	58.4%	94,538	64.5%	-6.027	-0.124

Table 1d. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	107,477	99.8%	107,477	8.7%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.9	13.3	49.0	13.9	-0.088	-0.006
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,255	12.3%	14,609	13.6%	-1.260	-0.038
30-39 years	20,182	18.8%	20,030	18.6%	0.141	0.004
40-49 years	24,627	22.9%	22,410	20.9%	2.063	0.050
50-59 years	21,852	20.3%	20,510	19.1%	1.249	0.031
≥ 60 years	27,561	25.6%	29,918	27.8%	-2.193	-0.050
Sex*						
Female	91,113	84.8%	91,429	85.1%	-0.294	-0.008
Male	16,364	15.2%	16,048	14.9%	0.294	0.008
Race*1						
American Indian or Alaska Native	426	0.4%	414	0.4%	0.011	0.002
Asian	1,544	1.4%	1,447	1.3%	0.090	0.008
Black or African American	8,523	7.9%	8,518	7.9%	0.005	0.000
Multi-racial	2,043	1.9%	2,089	1.9%	-0.043	-0.003
Native Hawaiian or Other Pacific Islander	317	0.3%	336	0.3%	-0.018	-0.003
Unknown	34,604	32.2%	34,400	32.0%	0.190	0.004

Table 1d. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
White	60,020	55.8%	60,273	56.1%	-0.235	-0.005
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	6,445	6.0%	7,070	6.6%	-0.582	-0.024
No	62,371	58.0%	62,413	58.1%	-0.039	-0.001
Unknown	38,661	36.0%	37,994	35.4%	0.621	0.013
Year*						
2020	8,806	8.2%	8,189	7.6%	0.574	0.021
2021	18,162	16.9%	17,673	16.4%	0.455	0.012
2022	27,098	25.2%	27,518	25.6%	-0.391	-0.009
2023	20,171	18.8%	20,249	18.8%	-0.073	-0.002
2024	23,467	21.8%	23,934	22.3%	-0.435	-0.010
2025	9,773	9.1%	9,914	9.2%	-0.131	-0.005
Health Characteristics						
Acute Myocardial Infarction*	910	0.8%	856	0.8%	0.050	0.006
Glaucoma*	4,832	4.5%	4,888	4.5%	-0.052	-0.003
Cataract*	7,526	7.0%	7,483	7.0%	0.040	0.002
Hip/Pelvic Fracture*	181	0.2%	189	0.2%	-0.007	-0.002
Alzheimer's Disease*	398	0.4%	403	0.4%	-0.005	-0.001
Atrial Fibrillation*	4,043	3.8%	3,908	3.6%	0.126	0.007
Diabetes*	17,805	16.6%	17,789	16.6%	0.015	0.000
Hyperlipidemia*	38,616	35.9%	38,483	35.8%	0.124	0.003

Table 1d. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Heart Failure/Non-Ischemic Heart Disease*	4,722	4.4%	4,632	4.3%	0.084	0.004
Hypertension*	40,774	37.9%	40,808	38.0%	-0.032	-0.001
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Ischemic Heart Disease*	9,440	8.8%	9,026	8.4%	0.385	0.014
Rheumatoid Arthritis/Osteoarthritis*	29,990	27.9%	30,196	28.1%	-0.192	-0.004
Anemia*	13,657	12.7%	13,641	12.7%	0.015	0.000
Asthma*	14,144	13.2%	14,172	13.2%	-0.026	-0.001
Chronic Kidney Disease*	7,243	6.7%	7,285	6.8%	-0.039	-0.002
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,798	8.2%	8,926	8.3%	-0.119	-0.004
Osteoporosis*	5,040	4.7%	5,079	4.7%	-0.036	-0.002
Depression, Bipolar or Other Mood Disorders*	37,737	35.1%	37,924	35.3%	-0.174	-0.004
Hypothyroidism*	16,606	15.5%	16,576	15.4%	0.028	0.001
Pneumonia*	2,480	2.3%	2,495	2.3%	-0.014	-0.001
Parkinson's Disease*	697	0.6%	682	0.6%	0.014	0.002
Non-Alzheimer's Dementia*	1,616	1.5%	1,582	1.5%	0.032	0.003
Sleep Disorder*	17,843	16.6%	18,000	16.7%	-0.146	-0.004
Substance Use Disorder*	14,538	13.5%	14,439	13.4%	0.092	0.003
Anxiety*	40,681	37.9%	41,132	38.3%	-0.420	-0.009
Behavioral Disorders*	11,353	10.6%	11,399	10.6%	-0.043	-0.001
Sympathomimetics/Alpha-1 Agonists*	14,038	13.1%	14,129	13.1%	-0.085	-0.003

Table 1d. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Ergot Derivatives and Methysergide*	279	0.3%	290	0.3%	-0.010	-0.002
Triptans/Ditans	296	0.3%	22	0.0%	0.255	0.066
Antihypertensives*	31,192	29.0%	31,052	28.9%	0.130	0.003
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Major Surgical Procedure*	6,901	6.4%	6,865	6.4%	0.033	0.001
Stroke/Transient Ischemic Attack (TIA)*	9,740	9.1%	8,733	8.1%	0.937	0.033
Benign Prostatic Hyperplasia*	2,114	2.0%	2,160	2.0%	-0.043	-0.003
BMI Overweight/Obese*	25,904	24.1%	26,220	24.4%	-0.294	-0.007
Other Psychological Disorders*	2,399	2.2%	2,385	2.2%	0.013	0.001
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	22.9	21.1	18.7	19.5	4.271	0.210
Mean number of Non-Proprietarys dispensed	9.3	6.1	7.9	6.0	1.398	0.230
Mean number of unique drug classes dispensed	8.7	5.5	7.4	5.5	1.313	0.239

Table 1d. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.9	11.9	11.4	12.1	2.512	0.210
Mean number of emergency room encounters	0.6	1.5	0.6	1.6	-0.023	-0.015
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.4	-0.021	-0.052
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.008	-0.055
Mean number of other ambulatory encounters	4.3	11.5	4.0	11.3	0.285	0.025

[*]Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1e. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	11,163	5.5%	9,851	6.7%	-1.197	-0.050
No	126,388	62.5%	100,421	68.5%	-5.970	-0.126
Unknown	64,635	32.0%	36,370	24.8%	7.166	0.159
Year*						
2018	10,755	5.3%	21,973	15.0%	-9.665	-0.324
2019	43,527	21.5%	27,182	18.5%	2.992	0.075
2020	41,708	20.6%	23,196	15.8%	4.810	0.125
2021	37,708	18.7%	22,241	15.2%	3.483	0.093
2022	34,648	17.1%	21,488	14.7%	2.483	0.068
2023	15,452	7.6%	12,769	8.7%	-1.065	-0.039
2024	13,334	6.6%	13,158	9.0%	-2.378	-0.089
2025	5,054	2.5%	4,635	3.2%	-0.661	-0.040
Health Characteristics						
Acute Myocardial Infarction*	731	0.4%	760	0.5%	-0.157	-0.024
Glaucoma*	6,345	3.1%	6,510	4.4%	-1.301	-0.068
Cataract*	10,173	5.0%	11,589	7.9%	-2.871	-0.117
Hip/Pelvic Fracture*	240	0.1%	301	0.2%	-0.087	-0.022
Alzheimer's Disease*	431	0.2%	651	0.4%	-0.231	-0.040
Atrial Fibrillation*	3,766	1.9%	4,470	3.0%	-1.186	-0.077
Diabetes*	25,178	12.5%	21,124	14.4%	-1.952	-0.057
Hyperlipidemia*	52,027	25.7%	45,462	31.0%	-5.270	-0.117

Table 1e. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Heart Failure/Non-Ischemic Heart Disease*	4,674	2.3%	5,171	3.5%	-1.215	-0.072
Hypertension*	58,246	28.8%	49,517	33.8%	-4.959	-0.107
Ischemic Heart Disease*	8,851	4.4%	10,432	7.1%	-2.736	-0.118
Rheumatoid Arthritis/Osteoarthritis*	48,741	24.1%	50,465	34.4%	-10.307	-0.228
Anemia*	19,267	9.5%	17,502	11.9%	-2.406	-0.078
Asthma*	25,020	12.4%	18,065	12.3%	0.056	0.002
Chronic Kidney Disease*	8,930	4.4%	8,689	5.9%	-1.509	-0.068
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	14,268	7.1%	11,957	8.2%	-1.097	-0.041
Osteoporosis*	6,490	3.2%	8,676	5.9%	-2.707	-0.130
Depression, Bipolar or Other Mood Disorders*	73,547	36.4%	56,437	38.5%	-2.110	-0.044
Hypothyroidism*	27,238	13.5%	23,876	16.3%	-2.810	-0.079
Pneumonia*	3,997	2.0%	4,148	2.8%	-0.852	-0.056
Parkinson's Disease*	789	0.4%	1,437	1.0%	-0.590	-0.072
Non-Alzheimer's Dementia*	1,692	0.8%	2,509	1.7%	-0.874	-0.078
Sleep Disorder*	32,156	15.9%	24,986	17.0%	-1.135	-0.031
Substance Use Disorder*	28,148	13.9%	21,944	15.0%	-1.043	-0.030
Anxiety*	72,119	35.7%	53,128	36.2%	-0.560	-0.012
Behavioral Disorders*	18,668	9.2%	14,670	10.0%	-0.771	-0.026
Sympathomimetics/Alpha-1 Agonists*	24,996	12.4%	19,652	13.4%	-1.038	-0.031
Ergot Derivatives and Methysergide*	2,204	1.1%	1,429	1.0%	0.116	0.011

Table 1e. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Triptans/Ditans*	118,616	58.7%	61,909	42.2%	16.449	0.334
Antihypertensives*	48,039	23.8%	40,184	27.4%	-3.643	-0.084
Major Surgical Procedure*	11,210	5.5%	10,979	7.5%	-1.943	-0.079
Stroke/Transient Ischemic Attack (TIA)*	8,091	4.0%	7,557	5.2%	-1.152	-0.055
Benign Prostatic Hyperplasia*	2,619	1.3%	3,416	2.3%	-1.034	-0.078
BMI Overweight/Obese*	40,476	20.0%	25,349	17.3%	2.733	0.070
Other Psychological Disorders*	5,034	2.5%	3,483	2.4%	0.115	0.007
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	27.4	23.0	27.9	23.9	-0.539	-0.023
Mean number of Non-Proprietarys dispensed	10.3	6.3	10.4	6.5	-0.137	-0.021
Mean number of unique drug classes dispensed	9.6	5.6	9.7	5.8	-0.124	-0.022
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.4	12.0	15.7	13.3	-2.267	-0.179
Mean number of emergency room encounters	0.6	1.5	0.6	1.5	0.035	0.023
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.018	-0.052
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.005	-0.039
Mean number of other ambulatory encounters	4.4	13.4	5.0	13.7	-0.533	-0.039

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1f. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	120,065	59.4%	120,065	81.9%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.8	12.6	48.8	12.6	-0.007	-0.001
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,688	11.4%	12,911	10.8%	0.647	0.021
30-39 years	22,587	18.8%	24,636	20.5%	-1.707	-0.043
40-49 years	28,963	24.1%	28,900	24.1%	0.052	0.001
50-59 years	25,175	21.0%	23,948	19.9%	1.022	0.025
≥ 60 years	29,652	24.7%	29,670	24.7%	-0.015	-0.000
Sex*						
Female	103,541	86.2%	103,375	86.1%	0.138	0.004
Male	16,524	13.8%	16,690	13.9%	-0.138	-0.004
Race*1						
American Indian or Alaska Native	833	0.7%	870	0.7%	-0.031	-0.004
Asian	1,425	1.2%	1,431	1.2%	-0.005	-0.000
Black or African American	6,626	5.5%	6,622	5.5%	0.003	0.000
Multi-racial	1,383	1.2%	1,390	1.2%	-0.006	-0.001
Native Hawaiian or Other Pacific Islander	426	0.4%	434	0.4%	-0.007	-0.001
Unknown	33,891	28.2%	33,827	28.2%	0.053	0.001
White	75,481	62.9%	75,491	62.9%	-0.008	-0.000

Table 1f. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	7,262	6.0%	8,415	7.0%	-0.960	-0.039
No	79,838	66.5%	79,910	66.6%	-0.060	-0.001
Unknown	32,965	27.5%	31,740	26.4%	1.020	0.023
Year*						
2018	9,897	8.2%	10,013	8.3%	-0.097	-0.004
2019	25,158	21.0%	24,959	20.8%	0.166	0.004
2020	22,052	18.4%	21,879	18.2%	0.144	0.004
2021	20,522	17.1%	20,606	17.2%	-0.070	-0.002
2022	19,145	15.9%	19,378	16.1%	-0.194	-0.005
2023	10,285	8.6%	10,341	8.6%	-0.047	-0.002
2024	9,491	7.9%	9,411	7.8%	0.067	0.002
2025	3,515	2.9%	3,478	2.9%	0.031	0.002
Health Characteristics						
Acute Myocardial Infarction*	538	0.4%	538	0.4%	0.000	0.000
Glaucoma*	4,623	3.9%	4,666	3.9%	-0.036	-0.002
Cataract*	8,022	6.7%	8,105	6.8%	-0.069	-0.003
Hip/Pelvic Fracture*	188	0.2%	196	0.2%	-0.007	-0.002
Alzheimer's Disease*	380	0.3%	376	0.3%	0.003	0.001
Atrial Fibrillation*	2,977	2.5%	2,935	2.4%	0.035	0.002
Diabetes*	16,232	13.5%	16,053	13.4%	0.149	0.004
Hyperlipidemia*	34,214	28.5%	34,192	28.5%	0.018	0.000

Table 1f. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Heart Failure/Non-Ischemic Heart Disease*	3,546	3.0%	3,498	2.9%	0.040	0.002
Hypertension*	37,556	31.3%	37,355	31.1%	0.167	0.004
Ischemic Heart Disease*	6,862	5.7%	6,792	5.7%	0.058	0.003
Rheumatoid Arthritis/Osteoarthritis*	36,586	30.5%	36,488	30.4%	0.082	0.002
Anemia*	12,962	10.8%	12,833	10.7%	0.107	0.003
Asthma*	14,939	12.4%	14,859	12.4%	0.067	0.002
Chronic Kidney Disease*	6,494	5.4%	6,407	5.3%	0.072	0.003
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	9,421	7.8%	9,320	7.8%	0.084	0.003
Osteoporosis*	5,521	4.6%	5,465	4.6%	0.047	0.002
Depression, Bipolar or Other Mood Disorders*	45,973	38.3%	45,820	38.2%	0.127	0.003
Hypothyroidism*	18,262	15.2%	18,230	15.2%	0.027	0.001
Pneumonia*	2,763	2.3%	2,703	2.3%	0.050	0.003
Parkinson's Disease*	738	0.6%	715	0.6%	0.019	0.002
Non-Alzheimer's Dementia*	1,452	1.2%	1,413	1.2%	0.032	0.003
Sleep Disorder*	19,940	16.6%	19,851	16.5%	0.074	0.002
Substance Use Disorder*	18,009	15.0%	17,970	15.0%	0.032	0.001
Anxiety*	43,764	36.5%	43,671	36.4%	0.077	0.002
Behavioral Disorders*	12,011	10.0%	12,001	10.0%	0.008	0.000
Sympathomimetics/Alpha-1 Agonists*	16,305	13.6%	16,223	13.5%	0.068	0.002
Ergot Derivatives and Methysergide*	1,263	1.1%	1,222	1.0%	0.034	0.003

Table 1f. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Triptans/Ditans*	56,101	46.7%	56,233	46.8%	-0.110	-0.002
Antihypertensives*	31,042	25.9%	30,787	25.6%	0.212	0.005
Major Surgical Procedure*	8,124	6.8%	8,091	6.7%	0.027	0.001
Stroke/Transient Ischemic Attack (TIA)*	5,700	4.7%	5,644	4.7%	0.047	0.002
Benign Prostatic Hyperplasia*	2,056	1.7%	2,067	1.7%	-0.009	-0.001
BMI Overweight/Obese*	21,498	17.9%	21,485	17.9%	0.011	0.000
Other Psychological Disorders*	2,974	2.5%	2,967	2.5%	0.006	0.000
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	28.8	23.7	27.4	23.6	1.437	0.061
Mean number of Non-Proprietarys dispensed	10.6	6.4	10.3	6.5	0.364	0.056
Mean number of unique drug classes dispensed	9.9	5.7	9.6	5.9	0.348	0.060
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.3	12.4	15.2	13.2	-0.941	-0.073
Mean number of emergency room encounters	0.6	1.6	0.6	1.5	0.042	0.027
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.007	-0.021
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.001	-0.012
Mean number of other ambulatory encounters	4.7	13.8	4.9	13.8	-0.229	-0.017

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1g. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	86,646	100.0%	1,641,343	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.1	13.2	42.9	12.7	5.190	0.401
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	11,311	13.1%	394,596	24.0%	-10.987	-0.286
30-39 years	16,581	19.1%	402,069	24.5%	-5.360	-0.130
40-49 years	20,522	23.7%	333,853	20.3%	3.345	0.081
50-59 years	17,986	20.8%	232,511	14.2%	6.592	0.174
≥ 60 years	20,246	23.4%	278,314	17.0%	6.410	0.160
Sex*						
Female	72,501	83.7%	1,371,376	83.6%	0.123	0.003
Male	14,145	16.3%	269,967	16.4%	-0.123	-0.003
Race*1						
American Indian or Alaska Native	508	0.6%	11,948	0.7%	-0.142	-0.018
Asian	799	0.9%	31,081	1.9%	-0.971	-0.083
Black or African American	6,883	7.9%	139,470	8.5%	-0.553	-0.020
Multi-racial	915	1.1%	23,219	1.4%	-0.359	-0.032
Native Hawaiian or Other Pacific Islander	274	0.3%	6,496	0.4%	-0.080	-0.013
Unknown	24,333	28.1%	615,889	37.5%	-9.440	-0.202
White	52,934	61.1%	813,240	49.5%	11.545	0.234

Table 1g. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	4,851	5.6%	153,470	9.4%	-3.752	-0.143
No	57,922	66.8%	930,503	56.7%	10.157	0.210
Unknown	23,873	27.6%	557,370	34.0%	-6.406	-0.139
Year*						
2018	5,522	6.4%	204,707	12.5%	-6.099	-0.210
2019	19,405	22.4%	287,204	17.5%	4.898	0.123
2020	17,479	20.2%	270,892	16.5%	3.669	0.095
2021	15,148	17.5%	277,887	16.9%	0.552	0.015
2022	13,778	15.9%	271,487	16.5%	-0.639	-0.017
2023	7,002	8.1%	136,267	8.3%	-0.221	-0.008
2024	6,016	6.9%	138,459	8.4%	-1.493	-0.056
2025	2,296	2.6%	54,440	3.3%	-0.667	-0.039
Health Characteristics						
Acute Myocardial Infarction*	531	0.6%	3,810	0.2%	0.381	0.059
Glaucoma*	3,437	4.0%	40,009	2.4%	1.529	0.087
Cataract*	5,639	6.5%	66,751	4.1%	2.441	0.109
Hip/Pelvic Fracture*	132	0.2%	1,564	0.1%	0.057	0.016
Alzheimer's Disease*	342	0.4%	1,898	0.1%	0.279	0.055
Atrial Fibrillation*	2,692	3.1%	19,360	1.2%	1.927	0.133
Diabetes*	14,563	16.8%	139,474	8.5%	8.310	0.252
Hyperlipidemia*	27,499	31.7%	313,900	19.1%	12.613	0.293

Table 1g. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Heart Failure/Non-Ischemic Heart Disease*	3,316	3.8%	22,295	1.4%	2.469	0.156
Hypertension*	31,736	36.6%	343,135	20.9%	15.721	0.353
Ischemic Heart Disease*	6,682	7.7%	39,365	2.4%	5.313	0.244
Rheumatoid Arthritis/Osteoarthritis*	25,222	29.1%	245,086	14.9%	14.177	0.347
Anemia*	9,919	11.4%	111,884	6.8%	4.631	0.161
Asthma*	12,006	13.9%	148,420	9.0%	4.814	0.152
Chronic Kidney Disease*	5,365	6.2%	46,142	2.8%	3.381	0.164
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,048	9.3%	76,770	4.7%	4.611	0.182
Osteoporosis*	3,583	4.1%	41,014	2.5%	1.636	0.091
Depression, Bipolar or Other Mood Disorders*	34,245	39.5%	395,822	24.1%	15.407	0.335
Hypothyroidism*	13,386	15.4%	152,907	9.3%	6.133	0.187
Pneumonia*	2,102	2.4%	25,097	1.5%	0.897	0.064
Parkinson's Disease*	553	0.6%	3,156	0.2%	0.446	0.069
Non-Alzheimer's Dementia*	1,183	1.4%	7,337	0.4%	0.918	0.097
Sleep Disorder*	15,305	17.7%	139,118	8.5%	9.188	0.275
Substance Use Disorder*	13,944	16.1%	187,798	11.4%	4.651	0.135
Anxiety*	32,106	37.1%	408,514	24.9%	12.165	0.265
Behavioral Disorders*	7,825	9.0%	118,147	7.2%	1.833	0.067
Sympathomimetics/Alpha-1 Agonists*	10,755	12.4%	140,456	8.6%	3.855	0.126
Ergot Derivatives and Methysergide*	295	0.3%	2,425	0.1%	0.193	0.039

Table 1g. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Triptans/Ditans	231	0.3%	128	0.0%	0.259	0.070
Antihypertensives*	24,895	28.7%	290,828	17.7%	11.013	0.263
Major Surgical Procedure*	5,671	6.5%	77,962	4.7%	1.795	0.078
Stroke/Transient Ischemic Attack (TIA)*	5,752	6.6%	28,468	1.7%	4.904	0.247
Benign Prostatic Hyperplasia*	1,634	1.9%	15,070	0.9%	0.968	0.082
BMI Overweight/Obese*	18,904	21.8%	233,594	14.2%	7.586	0.198
Other Psychological Disorders*	2,517	2.9%	27,832	1.7%	1.209	0.081
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	27.6	24.0	13.8	16.4	13.764	0.671
Mean number of Non-Proprietarys dispensed	10.2	6.5	6.0	5.2	4.292	0.730
Mean number of unique drug classes dispensed	9.6	5.9	5.6	4.7	3.982	0.749
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.6	8.8	10.7	6.009	0.514
Mean number of emergency room encounters	0.7	1.6	0.5	1.3	0.136	0.091
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.3	0.024	0.069
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	0.002	0.019
Mean number of other ambulatory encounters	5.2	15.1	3.1	10.7	2.057	0.157

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1h. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	86,639	100.0%	86,639	5.3%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.1	13.2	48.1	13.6	0.005	0.000
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	11,311	13.1%	11,963	13.8%	-0.753	-0.022
30-39 years	16,580	19.1%	17,016	19.6%	-0.503	-0.013
40-49 years	20,521	23.7%	19,069	22.0%	1.676	0.040
50-59 years	17,984	20.8%	17,097	19.7%	1.024	0.025
≥ 60 years	20,243	23.4%	21,494	24.8%	-1.444	-0.034
Sex*						
Female	72,496	83.7%	72,834	84.1%	-0.390	-0.011
Male	14,143	16.3%	13,805	15.9%	0.390	0.011
Race*1						
American Indian or Alaska Native	508	0.6%	482	0.6%	0.030	0.004
Asian	799	0.9%	723	0.8%	0.088	0.009
Black or African American	6,881	7.9%	6,675	7.7%	0.238	0.009
Multi-racial	915	1.1%	886	1.0%	0.033	0.003
Native Hawaiian or Other Pacific Islander	274	0.3%	255	0.3%	0.022	0.004
Unknown	24,332	28.1%	23,871	27.6%	0.532	0.012
White	52,930	61.1%	53,747	62.0%	-0.943	-0.019

Table 1h. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	4,851	5.6%	5,314	6.1%	-0.534	-0.023
No	57,917	66.8%	58,163	67.1%	-0.284	-0.006
Unknown	23,871	27.6%	23,162	26.7%	0.818	0.018
Year*						
2018	5,522	6.4%	5,158	6.0%	0.420	0.017
2019	19,403	22.4%	19,546	22.6%	-0.165	-0.004
2020	17,478	20.2%	17,755	20.5%	-0.320	-0.008
2021	15,146	17.5%	15,187	17.5%	-0.047	-0.001
2022	13,777	15.9%	13,937	16.1%	-0.185	-0.005
2023	7,002	8.1%	6,941	8.0%	0.070	0.003
2024	6,015	6.9%	5,904	6.8%	0.128	0.005
2025	2,296	2.7%	2,211	2.6%	0.098	0.006
Health Characteristics						
Acute Myocardial Infarction*	531	0.6%	520	0.6%	0.013	0.002
Glaucoma*	3,435	4.0%	3,419	3.9%	0.018	0.001
Cataract*	5,637	6.5%	5,563	6.4%	0.085	0.003
Hip/Pelvic Fracture*	132	0.2%	130	0.2%	0.002	0.001
Alzheimer's Disease*	341	0.4%	325	0.4%	0.018	0.003
Atrial Fibrillation*	2,689	3.1%	2,504	2.9%	0.214	0.013
Diabetes*	14,558	16.8%	14,299	16.5%	0.299	0.008
Hyperlipidemia*	27,492	31.7%	27,247	31.4%	0.283	0.006

Table 1h. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Heart Failure/Non-Ischemic Heart Disease*	3,312	3.8%	3,100	3.6%	0.245	0.013
Hypertension*	31,729	36.6%	31,437	36.3%	0.337	0.007
Ischemic Heart Disease*	6,676	7.7%	6,157	7.1%	0.599	0.023
Rheumatoid Arthritis/Osteoarthritis*	25,216	29.1%	25,076	28.9%	0.162	0.004
Anemia*	9,914	11.4%	9,851	11.4%	0.073	0.002
Asthma*	12,002	13.9%	11,806	13.6%	0.226	0.007
Chronic Kidney Disease*	5,360	6.2%	5,278	6.1%	0.095	0.004
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,044	9.3%	7,829	9.0%	0.248	0.009
Osteoporosis*	3,580	4.1%	3,545	4.1%	0.040	0.002
Depression, Bipolar or Other Mood Disorders*	34,238	39.5%	34,473	39.8%	-0.271	-0.006
Hypothyroidism*	13,383	15.4%	13,365	15.4%	0.021	0.001
Pneumonia*	2,101	2.4%	2,030	2.3%	0.082	0.005
Parkinson's Disease*	551	0.6%	514	0.6%	0.043	0.005
Non-Alzheimer's Dementia*	1,181	1.4%	1,095	1.3%	0.099	0.009
Sleep Disorder*	15,301	17.7%	15,161	17.5%	0.162	0.004
Substance Use Disorder*	13,942	16.1%	13,920	16.1%	0.025	0.001
Anxiety*	32,099	37.0%	32,416	37.4%	-0.366	-0.008
Behavioral Disorders*	7,823	9.0%	7,904	9.1%	-0.093	-0.003
Sympathomimetics/Alpha-1 Agonists*	10,753	12.4%	10,738	12.4%	0.017	0.001
Ergot Derivatives and Methysergide*	295	0.3%	293	0.3%	0.002	0.000

Table 1h. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Triptans/Ditans	231	0.3%	*****	*****	*****	*****
Antihypertensives*	24,889	28.7%	24,877	28.7%	0.014	0.000
Major Surgical Procedure*	5,667	6.5%	5,594	6.5%	0.084	0.003
Stroke/Transient Ischemic Attack (TIA)*	5,745	6.6%	5,088	5.9%	0.758	0.031
Benign Prostatic Hyperplasia*	1,632	1.9%	1,594	1.8%	0.044	0.003
BMI Overweight/Obese*	18,901	21.8%	18,970	21.9%	-0.080	-0.002
Other Psychological Disorders*	2,517	2.9%	2,492	2.9%	0.029	0.002
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	27.6	24.0	20.9	21.4	6.686	0.294
Mean number of Non-Proprietarys dispensed	10.2	6.5	8.3	6.3	1.943	0.304
Mean number of unique drug classes dispensed	9.6	5.9	7.8	5.6	1.819	0.316
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.6	11.8	12.5	2.983	0.238
Mean number of emergency room encounters	0.7	1.6	0.7	1.8	-0.039	-0.023
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.5	-0.028	-0.067
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.009	-0.059
Mean number of other ambulatory encounters	5.2	15.1	4.4	12.7	0.789	0.057

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Table 1i. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	196,551	100.0%	107,555	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	46.7	13.1	51.8	12.6	-5.142	-0.399
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	29,821	15.2%	9,882	9.2%	5.984	0.184
30-39 years	41,252	21.0%	19,010	17.7%	3.313	0.084
40-49 years	47,194	24.0%	22,672	21.1%	2.932	0.070
50-59 years	37,483	19.1%	20,233	18.8%	0.259	0.007
≥ 60 years	40,801	20.8%	35,758	33.2%	-12.488	-0.284
Sex*						
Female	168,069	85.5%	92,490	86.0%	-0.484	-0.014
Male	28,482	14.5%	15,065	14.0%	0.484	0.014
Race*1						
American Indian or Alaska Native	685	0.3%	761	0.7%	-0.359	-0.050
Asian	2,932	1.5%	1,576	1.5%	0.026	0.002
Black or African American	14,090	7.2%	5,358	5.0%	2.187	0.092
Multi-racial	4,219	2.1%	1,177	1.1%	1.052	0.083
Native Hawaiian or Other Pacific Islander	673	0.3%	382	0.4%	-0.013	-0.002
Unknown	67,390	34.3%	28,471	26.5%	7.815	0.171
White						

Table 1i. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	11,453	5.8%	7,319	6.8%	-0.978	-0.040
No	108,223	55.1%	73,700	68.5%	-13.462	-0.280
Unknown	76,875	39.1%	26,536	24.7%	14.440	0.314
Year*						
2020	15,251	7.8%	27,431	25.5%	-17.745	-0.491
2021	33,059	16.8%	24,994	23.2%	-6.419	-0.161
2022	50,370	25.6%	23,286	21.7%	3.977	0.094
2023	35,980	18.3%	13,489	12.5%	5.764	0.160
2024	43,538	22.2%	13,649	12.7%	9.461	0.251
2025	18,353	9.3%	4,706	4.4%	4.962	0.197
Health Characteristics						
Acute Myocardial Infarction*	1,291	0.7%	601	0.6%	0.098	0.013
Glaucoma*	7,275	3.7%	4,972	4.6%	-0.921	-0.046
Cataract*	11,173	5.7%	8,826	8.2%	-2.522	-0.099
Hip/Pelvic Fracture*	254	0.1%	246	0.2%	-0.099	-0.024
Alzheimer's Disease*	518	0.3%	538	0.5%	-0.237	-0.038
Atrial Fibrillation*	5,232	2.7%	3,519	3.3%	-0.610	-0.036
Diabetes*	25,725	13.1%	16,011	14.9%	-1.798	-0.052
Hyperlipidemia*	60,378	30.7%	35,201	32.7%	-2.010	-0.043
Heart Failure/Non-Ischemic Heart Disease*	5,920	3.0%	4,099	3.8%	-0.799	-0.044
Hypertension*	61,666	31.4%	36,991	34.4%	-3.019	-0.064
Ischemic Heart Disease*	11,822	6.0%	8,165	7.6%	-1.577	-0.063

Table 1i. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	45,685	23.2%	37,790	35.1%	-11.892	-0.264
Anemia*	21,443	10.9%	13,263	12.3%	-1.422	-0.044
Asthma*	23,075	11.7%	12,986	12.1%	-0.334	-0.010
Chronic Kidney Disease*	10,069	5.1%	6,921	6.4%	-1.312	-0.056
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	13,065	6.6%	8,475	7.9%	-1.233	-0.048
Osteoporosis*	7,424	3.8%	6,904	6.4%	-2.642	-0.120
Depression, Bipolar or Other Mood Disorders*	63,709	32.4%	40,755	37.9%	-5.479	-0.115
Hypothyroidism*	26,872	13.7%	17,863	16.6%	-2.936	-0.082
Pneumonia*	3,896	2.0%	3,167	2.9%	-0.962	-0.062
Parkinson's Disease*	951	0.5%	1,093	1.0%	-0.532	-0.062
Non-Alzheimer's Dementia*	2,063	1.0%	1,992	1.9%	-0.802	-0.067
Sleep Disorder*	29,866	15.2%	18,207	16.9%	-1.733	-0.047
Substance Use Disorder*	23,685	12.1%	15,039	14.0%	-1.932	-0.057
Anxiety*	71,667	36.5%	39,387	36.6%	-0.158	-0.003
Behavioral Disorders*	20,310	10.3%	11,218	10.4%	-0.097	-0.003
Sympathomimetics/Alpha-1 Agonists*	24,201	12.3%	14,569	13.5%	-1.233	-0.037
Ergot Derivatives and Methysergide*	1,071	0.5%	756	0.7%	-0.158	-0.020
Triptans/Ditans*	95,782	48.7%	43,064	40.0%	8.692	0.176
Antihypertensives*	48,796	24.8%	30,151	28.0%	-3.207	-0.073
Major Surgical Procedure*	10,684	5.4%	8,093	7.5%	-2.089	-0.085
Stroke/Transient Ischemic Attack (TIA)*	12,822	6.5%	5,444	5.1%	1.462	0.063

Table 1i. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	3,008	1.5%	2,798	2.6%	-1.071	-0.075
BMI Overweight/Obese*	44,603	22.7%	18,820	17.5%	5.195	0.130
Other Psychological Disorders*	3,710	1.9%	2,382	2.2%	-0.327	-0.023
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	22.3	20.2	26.5	23.2	-4.209	-0.194
Mean number of Non-Proprietarys dispensed	9.2	5.9	10.1	6.4	-0.917	-0.149
Mean number of unique drug classes dispensed	8.5	5.3	9.4	5.8	-0.876	-0.157
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	12.6	11.4	15.3	13.2	-2.699	-0.219
Mean number of emergency room encounters	0.5	1.4	0.5	1.3	0.044	0.032
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.008	-0.022
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.004	-0.031
Mean number of other ambulatory encounters	3.8	10.3	5.1	13.4	-1.316	-0.110

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1j. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	87,161	44.3%	87,161	81.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	50.5	12.8	50.5	12.7	0.054	0.004
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	9,262	10.6%	8,948	10.3%	0.360	0.012
30-39 years	15,383	17.6%	16,530	19.0%	-1.316	-0.034
40-49 years	19,241	22.1%	19,139	22.0%	0.117	0.003
50-59 years	17,345	19.9%	16,425	18.8%	1.056	0.027
≥ 60 years	25,930	29.7%	26,119	30.0%	-0.217	-0.005
Sex*						
Female	75,148	86.2%	75,081	86.1%	0.077	0.002
Male	12,013	13.8%	12,080	13.9%	-0.077	-0.002
Race*1						
American Indian or Alaska Native	510	0.6%	490	0.6%	0.023	0.003
Asian	1,298	1.5%	1,287	1.5%	0.013	0.001
Black or African American	4,757	5.5%	4,764	5.5%	-0.008	-0.000
Multi-racial	1,109	1.3%	1,118	1.3%	-0.010	-0.001
Native Hawaiian or Other Pacific Islander	315	0.4%	334	0.4%	-0.022	-0.004
Unknown	24,552	28.2%	24,587	28.2%	-0.040	-0.001
White	54,620	62.7%	54,581	62.6%	0.045	0.001

Table 1j. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	5,258	6.0%	6,062	7.0%	-0.922	-0.037
No	57,158	65.6%	57,206	65.6%	-0.055	-0.001
Unknown	24,745	28.4%	23,893	27.4%	0.978	0.022
Year*						
2020	12,891	14.8%	13,170	15.1%	-0.320	-0.009
2021	21,760	25.0%	21,470	24.6%	0.333	0.008
2022	22,000	25.2%	22,066	25.3%	-0.076	-0.002
2023	13,042	15.0%	12,930	14.8%	0.128	0.004
2024	12,939	14.8%	12,956	14.9%	-0.020	-0.001
2025	4,529	5.2%	4,569	5.2%	-0.046	-0.002
Health Characteristics						
Acute Myocardial Infarction*	553	0.6%	525	0.6%	0.032	0.004
Glaucoma*	3,944	4.5%	3,946	4.5%	-0.002	-0.000
Cataract*	6,747	7.7%	6,765	7.8%	-0.021	-0.001
Hip/Pelvic Fracture*	175	0.2%	177	0.2%	-0.002	-0.001
Alzheimer's Disease*	357	0.4%	366	0.4%	-0.010	-0.002
Atrial Fibrillation*	2,844	3.3%	2,805	3.2%	0.045	0.003
Diabetes*	12,636	14.5%	12,553	14.4%	0.095	0.003
Hyperlipidemia*	27,990	32.1%	28,020	32.1%	-0.034	-0.001
Heart Failure/Non-Ischemic Heart Disease*	3,190	3.7%	3,170	3.6%	0.023	0.001
Hypertension*	29,399	33.7%	29,297	33.6%	0.117	0.002
Ischemic Heart Disease*	6,242	7.2%	6,178	7.1%	0.073	0.003

Table 1j. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	27,859	32.0%	27,888	32.0%	-0.033	-0.001
Anemia*	10,314	11.8%	10,315	11.8%	-0.001	-0.000
Asthma*	10,628	12.2%	10,601	12.2%	0.031	0.001
Chronic Kidney Disease*	5,355	6.1%	5,433	6.2%	-0.089	-0.004
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	6,667	7.6%	6,710	7.7%	-0.049	-0.002
Osteoporosis*	4,990	5.7%	4,973	5.7%	0.020	0.001
Depression, Bipolar or Other Mood Disorders*	32,147	36.9%	31,963	36.7%	0.211	0.004
Hypothyroidism*	13,822	15.9%	13,932	16.0%	-0.126	-0.003
Pneumonia*	2,201	2.5%	2,186	2.5%	0.017	0.001
Parkinson's Disease*	722	0.8%	696	0.8%	0.030	0.003
Non-Alzheimer's Dementia*	1,394	1.6%	1,382	1.6%	0.014	0.001
Sleep Disorder*	14,457	16.6%	14,446	16.6%	0.013	0.000
Substance Use Disorder*	11,972	13.7%	12,038	13.8%	-0.076	-0.002
Anxiety*	32,168	36.9%	32,171	36.9%	-0.003	-0.000
Behavioral Disorders*	9,201	10.6%	9,191	10.5%	0.011	0.000
Sympathomimetics/Alpha-1 Agonists*	11,675	13.4%	11,696	13.4%	-0.024	-0.001
Ergot Derivatives and Methysergide*	581	0.7%	606	0.7%	-0.029	-0.003
Triptans/Ditans*	36,447	41.8%	36,546	41.9%	-0.114	-0.002
Antihypertensives*	23,878	27.4%	23,803	27.3%	0.086	0.002
Major Surgical Procedure*	6,075	7.0%	6,029	6.9%	0.053	0.002
Stroke/Transient Ischemic Attack (TIA)*	4,819	5.5%	4,833	5.5%	-0.016	-0.001

Table 1j. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	1,955	2.2%	1,923	2.2%	0.037	0.002
BMI Overweight/Obese*	15,975	18.3%	16,072	18.4%	-0.111	-0.003
Other Psychological Disorders*	1,906	2.2%	1,924	2.2%	-0.021	-0.001
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	25.7	22.4	25.5	22.6	0.250	0.011
Mean number of Non-Proprietarys dispensed	10.1	6.2	9.9	6.4	0.197	0.031
Mean number of unique drug classes dispensed	9.4	5.6	9.2	5.7	0.164	0.029
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.9	12.2	15.1	13.2	-1.204	-0.095
Mean number of emergency room encounters	0.6	1.4	0.5	1.4	0.064	0.046
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.001	-0.003
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.001	-0.006
Mean number of other ambulatory encounters	4.5	11.8	5.0	13.1	-0.447	-0.036

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1k. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	107,666	100.0%	1,236,315	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.9	13.3	43.6	12.8	5.368	0.412
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,257	12.3%	286,445	23.2%	-10.856	-0.287
30-39 years	20,187	18.7%	296,295	24.0%	-5.216	-0.128
40-49 years	24,652	22.9%	248,731	20.1%	2.778	0.068
50-59 years	21,912	20.4%	175,959	14.2%	6.119	0.162
≥ 60 years	27,658	25.7%	228,885	18.5%	7.175	0.174
Sex*						
Female	91,260	84.8%	1,033,045	83.6%	1.204	0.033
Male	16,406	15.2%	203,270	16.4%	-1.204	-0.033
Race*1						
American Indian or Alaska Native	426	0.4%	8,432	0.7%	-0.286	-0.039
Asian	1,544	1.4%	23,500	1.9%	-0.467	-0.036
Black or African American	8,551	7.9%	103,666	8.4%	-0.443	-0.016
Multi-racial	2,043	1.9%	19,073	1.5%	0.355	0.027
Native Hawaiian or Other Pacific Islander	317	0.3%	5,247	0.4%	-0.130	-0.022
Unknown	34,657	32.2%	454,095	36.7%	-4.540	-0.096
White	60,128	55.8%	622,302	50.3%	5.512	0.111

Table 1k. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	6,452	6.0%	111,604	9.0%	-3.035	-0.115
No	62,504	58.1%	703,168	56.9%	1.177	0.024
Unknown	38,710	36.0%	421,543	34.1%	1.857	0.039
Year*						
2020	8,806	8.2%	307,580	24.9%	-16.700	-0.461
2021	18,168	16.9%	303,094	24.5%	-7.642	-0.189
2022	27,123	25.2%	286,758	23.2%	1.997	0.047
2023	20,208	18.8%	141,631	11.5%	7.313	0.205
2024	23,550	21.9%	141,857	11.5%	10.399	0.282
2025	9,811	9.1%	55,395	4.5%	4.632	0.185
Health Characteristics						
Acute Myocardial Infarction*	924	0.9%	2,990	0.2%	0.616	0.083
Glaucoma*	4,856	4.5%	31,559	2.6%	1.958	0.106
Cataract*	7,555	7.0%	53,151	4.3%	2.718	0.118
Hip/Pelvic Fracture*	186	0.2%	1,276	0.1%	0.070	0.019
Alzheimer's Disease*	402	0.4%	1,546	0.1%	0.248	0.050
Atrial Fibrillation*	4,108	3.8%	15,649	1.3%	2.550	0.163
Diabetes*	17,901	16.6%	107,073	8.7%	7.966	0.241
Hyperlipidemia*	38,784	36.0%	250,546	20.3%	15.757	0.356
Heart Failure/Non-Ischemic Heart Disease*	4,783	4.4%	17,574	1.4%	3.021	0.180
Hypertension*	40,951	38.0%	262,877	21.3%	16.772	0.374
Ischemic Heart Disease*	9,561	8.9%	30,849	2.5%	6.385	0.278

Table 1k. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	30,110	28.0%	188,815	15.3%	12.694	0.312
Anemia*	13,740	12.8%	85,420	6.9%	5.852	0.197
Asthma*	14,204	13.2%	111,206	9.0%	4.198	0.134
Chronic Kidney Disease*	7,306	6.8%	37,512	3.0%	3.752	0.174
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,855	8.2%	55,144	4.5%	3.764	0.155
Osteoporosis*	5,051	4.7%	34,048	2.8%	1.937	0.102
Depression, Bipolar or Other Mood Disorders*	37,847	35.2%	301,071	24.4%	10.800	0.238
Hypothyroidism*	16,669	15.5%	117,489	9.5%	5.979	0.182
Pneumonia*	2,491	2.3%	18,877	1.5%	0.787	0.057
Parkinson's Disease*	710	0.7%	2,542	0.2%	0.454	0.069
Non-Alzheimer's Dementia*	1,637	1.5%	5,848	0.5%	1.047	0.106
Sleep Disorder*	17,925	16.6%	106,910	8.6%	8.001	0.242
Substance Use Disorder*	14,580	13.5%	133,899	10.8%	2.711	0.083
Anxiety*	40,803	37.9%	318,056	25.7%	12.172	0.264
Behavioral Disorders*	11,371	10.6%	93,406	7.6%	3.006	0.105
Sympathomimetics/Alpha-1 Agonists*	14,079	13.1%	107,742	8.7%	4.362	0.140
Ergot Derivatives and Methysergide*	281	0.3%	1,756	0.1%	0.119	0.027
Triptans/Ditans	297	0.3%	148	0.0%	0.264	0.070
Antihypertensives*	31,310	29.1%	225,748	18.3%	10.821	0.257
Major Surgical Procedure*	6,935	6.4%	58,539	4.7%	1.706	0.074
Stroke/Transient Ischemic Attack (TIA)*	9,923	9.2%	20,982	1.7%	7.519	0.336

Table 1k. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	2,128	2.0%	12,261	1.0%	0.985	0.082
BMI Overweight/Obese*	26,007	24.2%	180,943	14.6%	9.520	0.243
Other Psychological Disorders*	2,407	2.2%	19,820	1.6%	0.632	0.046
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	23.0	21.1	13.5	16.0	9.444	0.505
Mean number of Non-Proprietarys dispensed	9.3	6.1	5.9	5.1	3.372	0.597
Mean number of unique drug classes dispensed	8.7	5.6	5.6	4.7	3.129	0.610
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.0	11.9	8.7	10.6	5.227	0.463
Mean number of emergency room encounters	0.6	1.5	0.5	1.2	0.104	0.077
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.3	0.030	0.089
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	0.003	0.025
Mean number of other ambulatory encounters	4.3	11.5	3.2	10.6	1.092	0.099

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1l. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	107,477	99.8%	107,477	8.7%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.9	13.3	49.0	13.9	-0.088	-0.006
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,255	12.3%	14,609	13.6%	-1.260	-0.038
30-39 years	20,182	18.8%	20,030	18.6%	0.141	0.004
40-49 years	24,627	22.9%	22,410	20.9%	2.063	0.050
50-59 years	21,852	20.3%	20,510	19.1%	1.249	0.031
≥ 60 years	27,561	25.6%	29,918	27.8%	-2.193	-0.050
Sex*						
Female	91,113	84.8%	91,429	85.1%	-0.294	-0.008
Male	16,364	15.2%	16,048	14.9%	0.294	0.008
Race*1						
American Indian or Alaska Native	426	0.4%	414	0.4%	0.011	0.002
Asian	1,544	1.4%	1,447	1.3%	0.090	0.008
Black or African American	8,523	7.9%	8,518	7.9%	0.005	0.000
Multi-racial	2,043	1.9%	2,089	1.9%	-0.043	-0.003
Native Hawaiian or Other Pacific Islander	317	0.3%	336	0.3%	-0.018	-0.003
Unknown	34,604	32.2%	34,400	32.0%	0.190	0.004
White	60,020	55.8%	60,273	56.1%	-0.235	-0.005

Table 1l. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	6,445	6.0%	7,070	6.6%	-0.582	-0.024
No	62,371	58.0%	62,413	58.1%	-0.039	-0.001
Unknown	38,661	36.0%	37,994	35.4%	0.621	0.013
Year*						
2020	8,806	8.2%	8,189	7.6%	0.574	0.021
2021	18,162	16.9%	17,673	16.4%	0.455	0.012
2022	27,098	25.2%	27,518	25.6%	-0.391	-0.009
2023	20,171	18.8%	20,249	18.8%	-0.073	-0.002
2024	23,467	21.8%	23,934	22.3%	-0.435	-0.010
2025	9,773	9.1%	9,914	9.2%	-0.131	-0.005
Health Characteristics						
Acute Myocardial Infarction*	910	0.8%	856	0.8%	0.050	0.006
Glaucoma*	4,832	4.5%	4,888	4.5%	-0.052	-0.003
Cataract*	7,526	7.0%	7,483	7.0%	0.040	0.002
Hip/Pelvic Fracture*	181	0.2%	189	0.2%	-0.007	-0.002
Alzheimer's Disease*	398	0.4%	403	0.4%	-0.005	-0.001
Atrial Fibrillation*	4,043	3.8%	3,908	3.6%	0.126	0.007
Diabetes*	17,805	16.6%	17,789	16.6%	0.015	0.000
Hyperlipidemia*	38,616	35.9%	38,483	35.8%	0.124	0.003
Heart Failure/Non-Ischemic Heart Disease*	4,722	4.4%	4,632	4.3%	0.084	0.004
Hypertension*	40,774	37.9%	40,808	38.0%	-0.032	-0.001
Ischemic Heart Disease*	9,440	8.8%	9,026	8.4%	0.385	0.014

Table 1l. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	29,990	27.9%	30,196	28.1%	-0.192	-0.004
Anemia*	13,657	12.7%	13,641	12.7%	0.015	0.000
Asthma*	14,144	13.2%	14,172	13.2%	-0.026	-0.001
Chronic Kidney Disease*	7,243	6.7%	7,285	6.8%	-0.039	-0.002
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,798	8.2%	8,926	8.3%	-0.119	-0.004
Osteoporosis*	5,040	4.7%	5,079	4.7%	-0.036	-0.002
Depression, Bipolar or Other Mood Disorders*	37,737	35.1%	37,924	35.3%	-0.174	-0.004
Hypothyroidism*	16,606	15.5%	16,576	15.4%	0.028	0.001
Pneumonia*	2,480	2.3%	2,495	2.3%	-0.014	-0.001
Parkinson's Disease*	697	0.6%	682	0.6%	0.014	0.002
Non-Alzheimer's Dementia*	1,616	1.5%	1,582	1.5%	0.032	0.003
Sleep Disorder*	17,843	16.6%	18,000	16.7%	-0.146	-0.004
Substance Use Disorder*	14,538	13.5%	14,439	13.4%	0.092	0.003
Anxiety*	40,681	37.9%	41,132	38.3%	-0.420	-0.009
Behavioral Disorders*	11,353	10.6%	11,399	10.6%	-0.043	-0.001
Sympathomimetics/Alpha-1 Agonists*	14,038	13.1%	14,129	13.1%	-0.085	-0.003
Ergot Derivatives and Methysergide*	279	0.3%	290	0.3%	-0.010	-0.002
Triptans/Ditans	296	0.3%	22	0.0%	0.255	0.066
Antihypertensives*	31,192	29.0%	31,052	28.9%	0.130	0.003
Major Surgical Procedure*	6,901	6.4%	6,865	6.4%	0.033	0.001
Stroke/Transient Ischemic Attack (TIA)*	9,740	9.1%	8,733	8.1%	0.937	0.033

Table 1l. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	2,114	2.0%	2,160	2.0%	-0.043	-0.003
BMI Overweight/Obese*	25,904	24.1%	26,220	24.4%	-0.294	-0.007
Other Psychological Disorders*	2,399	2.2%	2,385	2.2%	0.013	0.001
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	22.9	21.1	18.7	19.5	4.271	0.210
Mean number of Non-Proprietarys dispensed	9.3	6.1	7.9	6.0	1.398	0.230
Mean number of unique drug classes dispensed	8.7	5.5	7.4	5.5	1.313	0.239
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.9	11.9	11.4	12.1	2.512	0.210
Mean number of emergency room encounters	0.6	1.5	0.6	1.6	-0.023	-0.015
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.4	-0.021	-0.052
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.008	-0.055
Mean number of other ambulatory encounters	4.3	11.5	4.0	11.3	0.285	0.025

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1m. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	202,186	100.0%	146,642	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	45.7	12.6	50.9	12.7	-5.196	-0.411
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	31,016	15.3%	14,012	9.6%	5.785	0.176
30-39 years	44,532	22.0%	27,217	18.6%	3.465	0.086
40-49 years	51,451	25.4%	32,615	22.2%	3.206	0.075
50-59 years	39,310	19.4%	28,156	19.2%	0.242	0.006
≥ 60 years	35,877	17.7%	44,642	30.4%	-12.698	-0.300
Sex*						
Female	172,864	85.5%	125,925	85.9%	-0.375	-0.011
Male	29,322	14.5%	20,717	14.1%	0.375	0.011
Race*1						
American Indian or Alaska Native	1,042	0.5%	1,152	0.8%	-0.270	-0.034
Asian	1,875	0.9%	2,057	1.4%	-0.475	-0.044
Black or African American	13,799	6.8%	7,398	5.0%	1.780	0.075
Multi-racial	2,517	1.2%	1,480	1.0%	0.236	0.022
Native Hawaiian or Other Pacific Islander	676	0.3%	505	0.3%	-0.010	-0.002
Unknown	64,116	31.7%	39,512	26.9%	4.767	0.105
White	118,161	58.4%	94,538	64.5%	-6.027	-0.124
Hispanic origin						
Yes	11,163	5.5%	9,851	6.7%	-1.197	-0.050
No	126,388	62.5%	100,421	68.5%	-5.970	-0.126
Unknown	64,635	32.0%	36,370	24.8%	7.166	0.159

Table 1m. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Year*	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
2018	10,755	5.3%	21,973	15.0%	-9.665	-0.324
2019	43,527	21.5%	27,182	18.5%	2.992	0.075
2020	41,708	20.6%	23,196	15.8%	4.810	0.125
2021	37,708	18.7%	22,241	15.2%	3.483	0.093
2022	34,648	17.1%	21,488	14.7%	2.483	0.068
2023	15,452	7.6%	12,769	8.7%	-1.065	-0.039
2024	13,334	6.6%	13,158	9.0%	-2.378	-0.089
2025	5,054	2.5%	4,635	3.2%	-0.661	-0.040
Health Characteristics						
Acute Myocardial Infarction*	731	0.4%	760	0.5%	-0.157	-0.024
Glaucoma*	6,345	3.1%	6,510	4.4%	-1.301	-0.068
Cataract*	10,173	5.0%	11,589	7.9%	-2.871	-0.117
Hip/Pelvic Fracture*	240	0.1%	301	0.2%	-0.087	-0.022
Alzheimer's Disease*	431	0.2%	651	0.4%	-0.231	-0.040
Atrial Fibrillation*	3,766	1.9%	4,470	3.0%	-1.186	-0.077
Diabetes*	25,178	12.5%	21,124	14.4%	-1.952	-0.057
Hyperlipidemia*	52,027	25.7%	45,462	31.0%	-5.270	-0.117
Heart Failure/Non-Ischemic Heart Disease*	4,674	2.3%	5,171	3.5%	-1.215	-0.072
Hypertension*	58,246	28.8%	49,517	33.8%	-4.959	-0.107
Ischemic Heart Disease*	8,851	4.4%	10,432	7.1%	-2.736	-0.118
Rheumatoid Arthritis/Osteoarthritis*	48,741	24.1%	50,465	34.4%	-10.307	-0.228
Anemia*	19,267	9.5%	17,502	11.9%	-2.406	-0.078
Asthma*	25,020	12.4%	18,065	12.3%	0.056	0.002

Table 1m. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Chronic Kidney Disease*	8,930	4.4%	8,689	5.9%	-1.509	-0.068
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	14,268	7.1%	11,957	8.2%	-1.097	-0.041
Osteoporosis*	6,490	3.2%	8,676	5.9%	-2.707	-0.130
Depression, Bipolar or Other Mood Disorders*	73,547	36.4%	56,437	38.5%	-2.110	-0.044
Hypothyroidism*	27,238	13.5%	23,876	16.3%	-2.810	-0.079
Pneumonia*	3,997	2.0%	4,148	2.8%	-0.852	-0.056
Parkinson's Disease*	789	0.4%	1,437	1.0%	-0.590	-0.072
Non-Alzheimer's Dementia*	1,692	0.8%	2,509	1.7%	-0.874	-0.078
Sleep Disorder*	32,156	15.9%	24,986	17.0%	-1.135	-0.031
Substance Use Disorder*	28,148	13.9%	21,944	15.0%	-1.043	-0.030
Anxiety*	72,119	35.7%	53,128	36.2%	-0.560	-0.012
Behavioral Disorders*	18,668	9.2%	14,670	10.0%	-0.771	-0.026
Sympathomimetics/Alpha-1 Agonists*	24,996	12.4%	19,652	13.4%	-1.038	-0.031
Ergot Derivatives and Methysergide*	2,204	1.1%	1,429	1.0%	0.116	0.011
Triptans/Ditans*	118,616	58.7%	61,909	42.2%	16.449	0.334
Antihypertensives*	48,039	23.8%	40,184	27.4%	-3.643	-0.084
Major Surgical Procedure*	11,210	5.5%	10,979	7.5%	-1.943	-0.079
Stroke/Transient Ischemic Attack (TIA)*	8,091	4.0%	7,557	5.2%	-1.152	-0.055
Benign Prostatic Hyperplasia*	2,619	1.3%	3,416	2.3%	-1.034	-0.078
BMI Overweight/Obese*	40,476	20.0%	25,349	17.3%	2.733	0.070
Other Psychological Disorders*	5,034	2.5%	3,483	2.4%	0.115	0.007

Table 1m. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Medical Product Use	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of filled prescriptions	27.4	23.0	27.9	23.9	-0.539	-0.023
Mean number of Non-Proprietarys dispensed	10.3	6.3	10.4	6.5	-0.137	-0.021
Mean number of unique drug classes dispensed	9.6	5.6	9.7	5.8	-0.124	-0.022
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.4	12.0	15.7	13.3	-2.267	-0.179
Mean number of emergency room encounters	0.6	1.5	0.6	1.5	0.035	0.023
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.018	-0.052
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.005	-0.039
Mean number of other ambulatory encounters	4.4	13.4	5.0	13.7	-0.533	-0.039

[*] Covariate included in the propensity score logistic regression model.

[1] Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1n. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	120,065	59.4%	120,065	81.9%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.8	12.6	48.8	12.6	-0.007	-0.001
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,688	11.4%	12,911	10.8%	0.647	0.021
30-39 years	22,587	18.8%	24,636	20.5%	-1.707	-0.043
40-49 years	28,963	24.1%	28,900	24.1%	0.052	0.001
50-59 years	25,175	21.0%	23,948	19.9%	1.022	0.025
≥ 60 years	29,652	24.7%	29,670	24.7%	-0.015	-0.000
Sex*						
Female	103,541	86.2%	103,375	86.1%	0.138	0.004
Male	16,524	13.8%	16,690	13.9%	-0.138	-0.004
Race*1						
American Indian or Alaska Native	833	0.7%	870	0.7%	-0.031	-0.004
Asian	1,425	1.2%	1,431	1.2%	-0.005	-0.000
Black or African American	6,626	5.5%	6,622	5.5%	0.003	0.000
Multi-racial	1,383	1.2%	1,390	1.2%	-0.006	-0.001
Native Hawaiian or Other Pacific Islander	426	0.4%	434	0.4%	-0.007	-0.001
Unknown	33,891	28.2%	33,827	28.2%	0.053	0.001
White	75,481	62.9%	75,491	62.9%	-0.008	-0.000
Hispanic origin						
Yes	7,262	6.0%	8,415	7.0%	-0.960	-0.039
No	79,838	66.5%	79,910	66.6%	-0.060	-0.001
Unknown	32,965	27.5%	31,740	26.4%	1.020	0.023

Table 1n. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Year*	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
2018	9,897	8.2%	10,013	8.3%	-0.097	-0.004
2019	25,158	21.0%	24,959	20.8%	0.166	0.004
2020	22,052	18.4%	21,879	18.2%	0.144	0.004
2021	20,522	17.1%	20,606	17.2%	-0.070	-0.002
2022	19,145	15.9%	19,378	16.1%	-0.194	-0.005
2023	10,285	8.6%	10,341	8.6%	-0.047	-0.002
2024	9,491	7.9%	9,411	7.8%	0.067	0.002
2025	3,515	2.9%	3,478	2.9%	0.031	0.002
Health Characteristics						
Acute Myocardial Infarction*	538	0.4%	538	0.4%	0.000	0.000
Glaucoma*	4,623	3.9%	4,666	3.9%	-0.036	-0.002
Cataract*	8,022	6.7%	8,105	6.8%	-0.069	-0.003
Hip/Pelvic Fracture*	188	0.2%	196	0.2%	-0.007	-0.002
Alzheimer's Disease*	380	0.3%	376	0.3%	0.003	0.001
Atrial Fibrillation*	2,977	2.5%	2,935	2.4%	0.035	0.002
Diabetes*	16,232	13.5%	16,053	13.4%	0.149	0.004
Hyperlipidemia*	34,214	28.5%	34,192	28.5%	0.018	0.000
Heart Failure/Non-Ischemic Heart Disease*	3,546	3.0%	3,498	2.9%	0.040	0.002
Hypertension*	37,556	31.3%	37,355	31.1%	0.167	0.004
Ischemic Heart Disease*	6,862	5.7%	6,792	5.7%	0.058	0.003
Rheumatoid Arthritis/Osteoarthritis*	36,586	30.5%	36,488	30.4%	0.082	0.002
Anemia*	12,962	10.8%	12,833	10.7%	0.107	0.003
Asthma*	14,939	12.4%	14,859	12.4%	0.067	0.002

Table 1n. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Chronic Kidney Disease*	6,494	5.4%	6,407	5.3%	0.072	0.003
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	9,421	7.8%	9,320	7.8%	0.084	0.003
Osteoporosis*	5,521	4.6%	5,465	4.6%	0.047	0.002
Depression, Bipolar or Other Mood Disorders*	45,973	38.3%	45,820	38.2%	0.127	0.003
Hypothyroidism*	18,262	15.2%	18,230	15.2%	0.027	0.001
Pneumonia*	2,763	2.3%	2,703	2.3%	0.050	0.003
Parkinson's Disease*	738	0.6%	715	0.6%	0.019	0.002
Non-Alzheimer's Dementia*	1,452	1.2%	1,413	1.2%	0.032	0.003
Sleep Disorder*	19,940	16.6%	19,851	16.5%	0.074	0.002
Substance Use Disorder*	18,009	15.0%	17,970	15.0%	0.032	0.001
Anxiety*	43,764	36.5%	43,671	36.4%	0.077	0.002
Behavioral Disorders*	12,011	10.0%	12,001	10.0%	0.008	0.000
Sympathomimetics/Alpha-1 Agonists*	16,305	13.6%	16,223	13.5%	0.068	0.002
Ergot Derivatives and Methysergide*	1,263	1.1%	1,222	1.0%	0.034	0.003
Triptans/Ditans*	56,101	46.7%	56,233	46.8%	-0.110	-0.002
Antihypertensives*	31,042	25.9%	30,787	25.6%	0.212	0.005
Major Surgical Procedure*	8,124	6.8%	8,091	6.7%	0.027	0.001
Stroke/Transient Ischemic Attack (TIA)*	5,700	4.7%	5,644	4.7%	0.047	0.002
Benign Prostatic Hyperplasia*	2,056	1.7%	2,067	1.7%	-0.009	-0.001
BMI Overweight/Obese*	21,498	17.9%	21,485	17.9%	0.011	0.000
Other Psychological Disorders*	2,974	2.5%	2,967	2.5%	0.006	0.000

Table 1n. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome			
Medical Product Use	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of filled prescriptions	28.8	23.7	27.4	23.6	1.437	0.061
Mean number of Non-Proprietarys dispensed	10.6	6.4	10.3	6.5	0.364	0.056
Mean number of unique drug classes dispensed	9.9	5.7	9.6	5.9	0.348	0.060
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.3	12.4	15.2	13.2	-0.941	-0.073
Mean number of emergency room encounters	0.6	1.6	0.6	1.5	0.042	0.027
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.007	-0.021
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.001	-0.012
Mean number of other ambulatory encounters	4.7	13.8	4.9	13.8	-0.229	-0.017

[*] Covariate included in the propensity score logistic regression model.

[1] Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1o. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	86,646	100.0%	1,641,343	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.1	13.2	42.9	12.7	5.190	0.401
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	11,311	13.1%	394,596	24.0%	-10.987	-0.286
30-39 years	16,581	19.1%	402,069	24.5%	-5.360	-0.130
40-49 years	20,522	23.7%	333,853	20.3%	3.345	0.081
50-59 years	17,986	20.8%	232,511	14.2%	6.592	0.174
≥ 60 years	20,246	23.4%	278,314	17.0%	6.410	0.160
Sex*						
Female	72,501	83.7%	1,371,376	83.6%	0.123	0.003
Male	14,145	16.3%	269,967	16.4%	-0.123	-0.003
Race*1						
American Indian or Alaska Native	508	0.6%	11,948	0.7%	-0.142	-0.018
Asian	799	0.9%	31,081	1.9%	-0.971	-0.083
Black or African American	6,883	7.9%	139,470	8.5%	-0.553	-0.020
Multi-racial	915	1.1%	23,219	1.4%	-0.359	-0.032
Native Hawaiian or Other Pacific Islander	274	0.3%	6,496	0.4%	-0.080	-0.013
Unknown	24,333	28.1%	615,889	37.5%	-9.440	-0.202
White	52,934	61.1%	813,240	49.5%	11.545	0.234
Hispanic origin						
Yes	4,851	5.6%	153,470	9.4%	-3.752	-0.143
No	57,922	66.8%	930,503	56.7%	10.157	0.210
Unknown	23,873	27.6%	557,370	34.0%	-6.406	-0.139

Table 1o. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Year*	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
2018	5,522	6.4%	204,707	12.5%	-6.099	-0.210
2019	19,405	22.4%	287,204	17.5%	4.898	0.123
2020	17,479	20.2%	270,892	16.5%	3.669	0.095
2021	15,148	17.5%	277,887	16.9%	0.552	0.015
2022	13,778	15.9%	271,487	16.5%	-0.639	-0.017
2023	7,002	8.1%	136,267	8.3%	-0.221	-0.008
2024	6,016	6.9%	138,459	8.4%	-1.493	-0.056
2025	2,296	2.6%	54,440	3.3%	-0.667	-0.039
Health Characteristics						
Acute Myocardial Infarction*	531	0.6%	3,810	0.2%	0.381	0.059
Glaucoma*	3,437	4.0%	40,009	2.4%	1.529	0.087
Cataract*	5,639	6.5%	66,751	4.1%	2.441	0.109
Hip/Pelvic Fracture*	132	0.2%	1,564	0.1%	0.057	0.016
Alzheimer's Disease*	342	0.4%	1,898	0.1%	0.279	0.055
Atrial Fibrillation*	2,692	3.1%	19,360	1.2%	1.927	0.133
Diabetes*	14,563	16.8%	139,474	8.5%	8.310	0.252
Hyperlipidemia*	27,499	31.7%	313,900	19.1%	12.613	0.293
Heart Failure/Non-Ischemic Heart Disease*	3,316	3.8%	22,295	1.4%	2.469	0.156
Hypertension*	31,736	36.6%	343,135	20.9%	15.721	0.353
Ischemic Heart Disease*	6,682	7.7%	39,365	2.4%	5.313	0.244
Rheumatoid Arthritis/Osteoarthritis*	25,222	29.1%	245,086	14.9%	14.177	0.347
Anemia*	9,919	11.4%	111,884	6.8%	4.631	0.161
Asthma*	12,006	13.9%	148,420	9.0%	4.814	0.152

Table 1o. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Chronic Kidney Disease*	5,365	6.2%	46,142	2.8%	3.381	0.164
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,048	9.3%	76,770	4.7%	4.611	0.182
Osteoporosis*	3,583	4.1%	41,014	2.5%	1.636	0.091
Depression, Bipolar or Other Mood Disorders*	34,245	39.5%	395,822	24.1%	15.407	0.335
Hypothyroidism*	13,386	15.4%	152,907	9.3%	6.133	0.187
Pneumonia*	2,102	2.4%	25,097	1.5%	0.897	0.064
Parkinson's Disease*	553	0.6%	3,156	0.2%	0.446	0.069
Non-Alzheimer's Dementia*	1,183	1.4%	7,337	0.4%	0.918	0.097
Sleep Disorder*	15,305	17.7%	139,118	8.5%	9.188	0.275
Substance Use Disorder*	13,944	16.1%	187,798	11.4%	4.651	0.135
Anxiety*	32,106	37.1%	408,514	24.9%	12.165	0.265
Behavioral Disorders*	7,825	9.0%	118,147	7.2%	1.833	0.067
Sympathomimetics/Alpha-1 Agonists*	10,755	12.4%	140,456	8.6%	3.855	0.126
Ergot Derivatives and Methysergide*	295	0.3%	2,425	0.1%	0.193	0.039
Triptans/Ditans	231	0.3%	128	0.0%	0.259	0.070
Antihypertensives*	24,895	28.7%	290,828	17.7%	11.013	0.263
Major Surgical Procedure*	5,671	6.5%	77,962	4.7%	1.795	0.078
Stroke/Transient Ischemic Attack (TIA)*	5,752	6.6%	28,468	1.7%	4.904	0.247
Benign Prostatic Hyperplasia*	1,634	1.9%	15,070	0.9%	0.968	0.082
BMI Overweight/Obese*	18,904	21.8%	233,594	14.2%	7.586	0.198
Other Psychological Disorders*	2,517	2.9%	27,832	1.7%	1.209	0.081

Table 1o. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Medical Product Use	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of filled prescriptions	27.6	24.0	13.8	16.4	13.764	0.671
Mean number of Non-Proprietarys dispensed	10.2	6.5	6.0	5.2	4.292	0.730
Mean number of unique drug classes dispensed	9.6	5.9	5.6	4.7	3.982	0.749
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.6	8.8	10.7	6.009	0.514
Mean number of emergency room encounters	0.7	1.6	0.5	1.3	0.136	0.091
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.3	0.024	0.069
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	0.002	0.019
Mean number of other ambulatory encounters	5.2	15.1	3.1	10.7	2.057	0.157

[*] Covariate included in the propensity score logistic regression model.

[1] Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1p. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	86,639	100.0%	86,639	5.3%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.1	13.2	48.1	13.6	0.005	0.000
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	11,311	13.1%	11,963	13.8%	-0.753	-0.022
30-39 years	16,580	19.1%	17,016	19.6%	-0.503	-0.013
40-49 years	20,521	23.7%	19,069	22.0%	1.676	0.040
50-59 years	17,984	20.8%	17,097	19.7%	1.024	0.025
≥ 60 years	20,243	23.4%	21,494	24.8%	-1.444	-0.034
Sex*						
Female	72,496	83.7%	72,834	84.1%	-0.390	-0.011
Male	14,143	16.3%	13,805	15.9%	0.390	0.011
Race*1						
American Indian or Alaska Native	508	0.6%	482	0.6%	0.030	0.004
Asian	799	0.9%	723	0.8%	0.088	0.009
Black or African American	6,881	7.9%	6,675	7.7%	0.238	0.009
Multi-racial	915	1.1%	886	1.0%	0.033	0.003
Native Hawaiian or Other Pacific Islander	274	0.3%	255	0.3%	0.022	0.004
Unknown	24,332	28.1%	23,871	27.6%	0.532	0.012
White	52,930	61.1%	53,747	62.0%	-0.943	-0.019
Hispanic origin						
Yes	4,851	5.6%	5,314	6.1%	-0.534	-0.023
No	57,917	66.8%	58,163	67.1%	-0.284	-0.006
Unknown	23,871	27.6%	23,162	26.7%	0.818	0.018

Table 1p. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Year*	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
2018	5,522	6.4%	5,158	6.0%	0.420	0.017
2019	19,403	22.4%	19,546	22.6%	-0.165	-0.004
2020	17,478	20.2%	17,755	20.5%	-0.320	-0.008
2021	15,146	17.5%	15,187	17.5%	-0.047	-0.001
2022	13,777	15.9%	13,937	16.1%	-0.185	-0.005
2023	7,002	8.1%	6,941	8.0%	0.070	0.003
2024	6,015	6.9%	5,904	6.8%	0.128	0.005
2025	2,296	2.7%	2,211	2.6%	0.098	0.006
Health Characteristics						
Acute Myocardial Infarction*	531	0.6%	520	0.6%	0.013	0.002
Glaucoma*	3,435	4.0%	3,419	3.9%	0.018	0.001
Cataract*	5,637	6.5%	5,563	6.4%	0.085	0.003
Hip/Pelvic Fracture*	132	0.2%	130	0.2%	0.002	0.001
Alzheimer's Disease*	341	0.4%	325	0.4%	0.018	0.003
Atrial Fibrillation*	2,689	3.1%	2,504	2.9%	0.214	0.013
Diabetes*	14,558	16.8%	14,299	16.5%	0.299	0.008
Hyperlipidemia*	27,492	31.7%	27,247	31.4%	0.283	0.006
Heart Failure/Non-Ischemic Heart Disease*	3,312	3.8%	3,100	3.6%	0.245	0.013
Hypertension*	31,729	36.6%	31,437	36.3%	0.337	0.007
Ischemic Heart Disease*	6,676	7.7%	6,157	7.1%	0.599	0.023
Rheumatoid Arthritis/Osteoarthritis*	25,216	29.1%	25,076	28.9%	0.162	0.004
Anemia*	9,914	11.4%	9,851	11.4%	0.073	0.002
Asthma*	12,002	13.9%	11,806	13.6%	0.226	0.007

Table 1p. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Chronic Kidney Disease*	5,360	6.2%	5,278	6.1%	0.095	0.004
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,044	9.3%	7,829	9.0%	0.248	0.009
Osteoporosis*	3,580	4.1%	3,545	4.1%	0.040	0.002
Depression, Bipolar or Other Mood Disorders*	34,238	39.5%	34,473	39.8%	-0.271	-0.006
Hypothyroidism*	13,383	15.4%	13,365	15.4%	0.021	0.001
Pneumonia*	2,101	2.4%	2,030	2.3%	0.082	0.005
Parkinson's Disease*	551	0.6%	514	0.6%	0.043	0.005
Non-Alzheimer's Dementia*	1,181	1.4%	1,095	1.3%	0.099	0.009
Sleep Disorder*	15,301	17.7%	15,161	17.5%	0.162	0.004
Substance Use Disorder*	13,942	16.1%	13,920	16.1%	0.025	0.001
Anxiety*	32,099	37.0%	32,416	37.4%	-0.366	-0.008
Behavioral Disorders*	7,823	9.0%	7,904	9.1%	-0.093	-0.003
Sympathomimetics/Alpha-1 Agonists*	10,753	12.4%	10,738	12.4%	0.017	0.001
Ergot Derivatives and Methysergide*	295	0.3%	293	0.3%	0.002	0.000
Triptans/Ditans	231	0.3%	*****	*****	*****	*****
Antihypertensives*	24,889	28.7%	24,877	28.7%	0.014	0.000
Major Surgical Procedure*	5,667	6.5%	5,594	6.5%	0.084	0.003
Stroke/Transient Ischemic Attack (TIA)*	5,745	6.6%	5,088	5.9%	0.758	0.031
Benign Prostatic Hyperplasia*	1,632	1.9%	1,594	1.8%	0.044	0.003
BMI Overweight/Obese*	18,901	21.8%	18,970	21.9%	-0.080	-0.002
Other Psychological Disorders*	2,517	2.9%	2,492	2.9%	0.029	0.002

Table 1p. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Constipation Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome			
Medical Product Use	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of filled prescriptions	27.6	24.0	20.9	21.4	6.686	0.294
Mean number of Non-Proprietarys dispensed	10.2	6.5	8.3	6.3	1.943	0.304
Mean number of unique drug classes dispensed	9.6	5.9	7.8	5.6	1.819	0.316
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.6	11.8	12.5	2.983	0.238
Mean number of emergency room encounters	0.7	1.6	0.7	1.8	-0.039	-0.023
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.5	-0.028	-0.067
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.009	-0.059
Mean number of other ambulatory encounters	5.2	15.1	4.4	12.7	0.789	0.057

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Table 1q. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	196,551	100.0%	107,555	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	46.7	13.1	51.8	12.6	-5.142	-0.399
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	29,821	15.2%	9,882	9.2%	5.984	0.184
30-39 years	41,252	21.0%	19,010	17.7%	3.313	0.084
40-49 years	47,194	24.0%	22,672	21.1%	2.932	0.070
50-59 years	37,483	19.1%	20,233	18.8%	0.259	0.007
≥ 60 years	40,801	20.8%	35,758	33.2%	-12.488	-0.284
Sex*						
Female	168,069	85.5%	92,490	86.0%	-0.484	-0.014
Male	28,482	14.5%	15,065	14.0%	0.484	0.014
Race*1						
American Indian or Alaska Native	685	0.3%	761	0.7%	-0.359	-0.050
Asian	2,932	1.5%	1,576	1.5%	0.026	0.002
Black or African American	14,090	7.2%	5,358	5.0%	2.187	0.092
Multi-racial	4,219	2.1%	1,177	1.1%	1.052	0.083
Native Hawaiian or Other Pacific Islander	673	0.3%	382	0.4%	-0.013	-0.002
Unknown	67,390	34.3%	28,471	26.5%	7.815	0.171
White	106,562	54.2%	69,830	64.9%	-10.709	-0.220

Table 1q. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	11,453	5.8%	7,319	6.8%	-0.978	-0.040
No	108,223	55.1%	73,700	68.5%	-13.462	-0.280
Unknown	76,875	39.1%	26,536	24.7%	14.440	0.314
Year*						
2020	15,251	7.8%	27,431	25.5%	-17.745	-0.491
2021	33,059	16.8%	24,994	23.2%	-6.419	-0.161
2022	50,370	25.6%	23,286	21.7%	3.977	0.094
2023	35,980	18.3%	13,489	12.5%	5.764	0.160
2024	43,538	22.2%	13,649	12.7%	9.461	0.251
2025	18,353	9.3%	4,706	4.4%	4.962	0.197
Health Characteristics						
Acute Myocardial Infarction*	1,291	0.7%	601	0.6%	0.098	0.013
Glaucoma*	7,275	3.7%	4,972	4.6%	-0.921	-0.046
Cataract*	11,173	5.7%	8,826	8.2%	-2.522	-0.099
Hip/Pelvic Fracture*	254	0.1%	246	0.2%	-0.099	-0.024
Alzheimer's Disease*	518	0.3%	538	0.5%	-0.237	-0.038
Atrial Fibrillation*	5,232	2.7%	3,519	3.3%	-0.610	-0.036
Diabetes*	25,725	13.1%	16,011	14.9%	-1.798	-0.052
Hyperlipidemia*	60,378	30.7%	35,201	32.7%	-2.010	-0.043
Heart Failure/Non-Ischemic Heart Disease*	5,920	3.0%	4,099	3.8%	-0.799	-0.044
Hypertension*	61,666	31.4%	36,991	34.4%	-3.019	-0.064
Ischemic Heart Disease*	11,822	6.0%	8,165	7.6%	-1.577	-0.063

Table 1q. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	45,685	23.2%	37,790	35.1%	-11.892	-0.264
Anemia*	21,443	10.9%	13,263	12.3%	-1.422	-0.044
Asthma*	23,075	11.7%	12,986	12.1%	-0.334	-0.010
Chronic Kidney Disease*	10,069	5.1%	6,921	6.4%	-1.312	-0.056
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	13,065	6.6%	8,475	7.9%	-1.233	-0.048
Osteoporosis*	7,424	3.8%	6,904	6.4%	-2.642	-0.120
Depression, Bipolar or Other Mood Disorders*	63,709	32.4%	40,755	37.9%	-5.479	-0.115
Hypothyroidism*	26,872	13.7%	17,863	16.6%	-2.936	-0.082
Pneumonia*	3,896	2.0%	3,167	2.9%	-0.962	-0.062
Parkinson's Disease*	951	0.5%	1,093	1.0%	-0.532	-0.062
Non-Alzheimer's Dementia*	2,063	1.0%	1,992	1.9%	-0.802	-0.067
Sleep Disorder*	29,866	15.2%	18,207	16.9%	-1.733	-0.047
Substance Use Disorder*	23,685	12.1%	15,039	14.0%	-1.932	-0.057
Anxiety*	71,667	36.5%	39,387	36.6%	-0.158	-0.003
Behavioral Disorders*	20,310	10.3%	11,218	10.4%	-0.097	-0.003
Sympathomimetics/Alpha-1 Agonists*	24,201	12.3%	14,569	13.5%	-1.233	-0.037
Ergot Derivatives and Methysergide*	1,071	0.5%	756	0.7%	-0.158	-0.020
Triptans/Ditans*	95,782	48.7%	43,064	40.0%	8.692	0.176
Antihypertensives*	48,796	24.8%	30,151	28.0%	-3.207	-0.073
Major Surgical Procedure*	10,684	5.4%	8,093	7.5%	-2.089	-0.085
Stroke/Transient Ischemic Attack (TIA)*	12,822	6.5%	5,444	5.1%	1.462	0.063
Benign Prostatic Hyperplasia*	3,008	1.5%	2,798	2.6%	-1.071	-0.075

Table 1q. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
BMI Overweight/Obese*	44,603	22.7%	18,820	17.5%	5.195	0.130
Other Psychological Disorders*	3,710	1.9%	2,382	2.2%	-0.327	-0.023
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	22.3	20.2	26.5	23.2	-4.209	-0.194
Mean number of Non-Proprietarys dispensed	9.2	5.9	10.1	6.4	-0.917	-0.149
Mean number of unique drug classes dispensed	8.5	5.3	9.4	5.8	-0.876	-0.157
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	12.6	11.4	15.3	13.2	-2.699	-0.219
Mean number of emergency room encounters	0.5	1.4	0.5	1.3	0.044	0.032
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.008	-0.022
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.004	-0.031
Mean number of other ambulatory encounters	3.8	10.3	5.1	13.4	-1.316	-0.110

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1r. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	87,161	44.3%	87,161	81.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	50.5	12.8	50.5	12.7	0.054	0.004
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	9,262	10.6%	8,948	10.3%	0.360	0.012
30-39 years	15,383	17.6%	16,530	19.0%	-1.316	-0.034
40-49 years	19,241	22.1%	19,139	22.0%	0.117	0.003
50-59 years	17,345	19.9%	16,425	18.8%	1.056	0.027
≥ 60 years	25,930	29.7%	26,119	30.0%	-0.217	-0.005
Sex*						
Female	75,148	86.2%	75,081	86.1%	0.077	0.002
Male	12,013	13.8%	12,080	13.9%	-0.077	-0.002
Race*1						
American Indian or Alaska Native	510	0.6%	490	0.6%	0.023	0.003
Asian	1,298	1.5%	1,287	1.5%	0.013	0.001
Black or African American	4,757	5.5%	4,764	5.5%	-0.008	-0.000
Multi-racial	1,109	1.3%	1,118	1.3%	-0.010	-0.001
Native Hawaiian or Other Pacific Islander	315	0.4%	334	0.4%	-0.022	-0.004
Unknown	24,552	28.2%	24,587	28.2%	-0.040	-0.001
White	54,620	62.7%	54,581	62.6%	0.045	0.001

Table 1r. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	5,258	6.0%	6,062	7.0%	-0.922	-0.037
No	57,158	65.6%	57,206	65.6%	-0.055	-0.001
Unknown	24,745	28.4%	23,893	27.4%	0.978	0.022
Year*						
2020	12,891	14.8%	13,170	15.1%	-0.320	-0.009
2021	21,760	25.0%	21,470	24.6%	0.333	0.008
2022	22,000	25.2%	22,066	25.3%	-0.076	-0.002
2023	13,042	15.0%	12,930	14.8%	0.128	0.004
2024	12,939	14.8%	12,956	14.9%	-0.020	-0.001
2025	4,529	5.2%	4,569	5.2%	-0.046	-0.002
Health Characteristics						
Acute Myocardial Infarction*	553	0.6%	525	0.6%	0.032	0.004
Glaucoma*	3,944	4.5%	3,946	4.5%	-0.002	-0.000
Cataract*	6,747	7.7%	6,765	7.8%	-0.021	-0.001
Hip/Pelvic Fracture*	175	0.2%	177	0.2%	-0.002	-0.001
Alzheimer's Disease*	357	0.4%	366	0.4%	-0.010	-0.002
Atrial Fibrillation*	2,844	3.3%	2,805	3.2%	0.045	0.003
Diabetes*	12,636	14.5%	12,553	14.4%	0.095	0.003
Hyperlipidemia*	27,990	32.1%	28,020	32.1%	-0.034	-0.001
Heart Failure/Non-Ischemic Heart Disease*	3,190	3.7%	3,170	3.6%	0.023	0.001
Hypertension*	29,399	33.7%	29,297	33.6%	0.117	0.002
Ischemic Heart Disease*	6,242	7.2%	6,178	7.1%	0.073	0.003

Table 1r. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	27,859	32.0%	27,888	32.0%	-0.033	-0.001
Anemia*	10,314	11.8%	10,315	11.8%	-0.001	-0.000
Asthma*	10,628	12.2%	10,601	12.2%	0.031	0.001
Chronic Kidney Disease*	5,355	6.1%	5,433	6.2%	-0.089	-0.004
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	6,667	7.6%	6,710	7.7%	-0.049	-0.002
Osteoporosis*	4,990	5.7%	4,973	5.7%	0.020	0.001
Depression, Bipolar or Other Mood Disorders*	32,147	36.9%	31,963	36.7%	0.211	0.004
Hypothyroidism*	13,822	15.9%	13,932	16.0%	-0.126	-0.003
Pneumonia*	2,201	2.5%	2,186	2.5%	0.017	0.001
Parkinson's Disease*	722	0.8%	696	0.8%	0.030	0.003
Non-Alzheimer's Dementia*	1,394	1.6%	1,382	1.6%	0.014	0.001
Sleep Disorder*	14,457	16.6%	14,446	16.6%	0.013	0.000
Substance Use Disorder*	11,972	13.7%	12,038	13.8%	-0.076	-0.002
Anxiety*	32,168	36.9%	32,171	36.9%	-0.003	-0.000
Behavioral Disorders*	9,201	10.6%	9,191	10.5%	0.011	0.000
Sympathomimetics/Alpha-1 Agonists*	11,675	13.4%	11,696	13.4%	-0.024	-0.001
Ergot Derivatives and Methysergide*	581	0.7%	606	0.7%	-0.029	-0.003
Triptans/Ditans*	36,447	41.8%	36,546	41.9%	-0.114	-0.002
Antihypertensives*	23,878	27.4%	23,803	27.3%	0.086	0.002
Major Surgical Procedure*	6,075	7.0%	6,029	6.9%	0.053	0.002
Stroke/Transient Ischemic Attack (TIA)*	4,819	5.5%	4,833	5.5%	-0.016	-0.001
Benign Prostatic Hyperplasia*	1,955	2.2%	1,923	2.2%	0.037	0.002

Table 1r. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
BMI Overweight/Obese*	15,975	18.3%	16,072	18.4%	-0.111	-0.003
Other Psychological Disorders*	1,906	2.2%	1,924	2.2%	-0.021	-0.001
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	25.7	22.4	25.5	22.6	0.250	0.011
Mean number of Non-Proprietarys dispensed	10.1	6.2	9.9	6.4	0.197	0.031
Mean number of unique drug classes dispensed	9.4	5.6	9.2	5.7	0.164	0.029
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.9	12.2	15.1	13.2	-1.204	-0.095
Mean number of emergency room encounters	0.6	1.4	0.5	1.4	0.064	0.046
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.001	-0.003
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.001	-0.006
Mean number of other ambulatory encounters	4.5	11.8	5.0	13.1	-0.447	-0.036

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1s. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	107,666	100.0%	1,236,315	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.9	13.3	43.6	12.8	5.368	0.412
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,257	12.3%	286,445	23.2%	-10.856	-0.287
30-39 years	20,187	18.7%	296,295	24.0%	-5.216	-0.128
40-49 years	24,652	22.9%	248,731	20.1%	2.778	0.068
50-59 years	21,912	20.4%	175,959	14.2%	6.119	0.162
≥ 60 years	27,658	25.7%	228,885	18.5%	7.175	0.174
Sex*						
Female	91,260	84.8%	1,033,045	83.6%	1.204	0.033
Male	16,406	15.2%	203,270	16.4%	-1.204	-0.033
Race*1						
American Indian or Alaska Native	426	0.4%	8,432	0.7%	-0.286	-0.039
Asian	1,544	1.4%	23,500	1.9%	-0.467	-0.036
Black or African American	8,551	7.9%	103,666	8.4%	-0.443	-0.016
Multi-racial	2,043	1.9%	19,073	1.5%	0.355	0.027
Native Hawaiian or Other Pacific Islander	317	0.3%	5,247	0.4%	-0.130	-0.022
Unknown	34,657	32.2%	454,095	36.7%	-4.540	-0.096
White	60,128	55.8%	622,302	50.3%	5.512	0.111

Table 1s. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	6,452	6.0%	111,604	9.0%	-3.035	-0.115
No	62,504	58.1%	703,168	56.9%	1.177	0.024
Unknown	38,710	36.0%	421,543	34.1%	1.857	0.039
Year*						
2020	8,806	8.2%	307,580	24.9%	-16.700	-0.461
2021	18,168	16.9%	303,094	24.5%	-7.642	-0.189
2022	27,123	25.2%	286,758	23.2%	1.997	0.047
2023	20,208	18.8%	141,631	11.5%	7.313	0.205
2024	23,550	21.9%	141,857	11.5%	10.399	0.282
2025	9,811	9.1%	55,395	4.5%	4.632	0.185
Health Characteristics						
Acute Myocardial Infarction*	924	0.9%	2,990	0.2%	0.616	0.083
Glaucoma*	4,856	4.5%	31,559	2.6%	1.958	0.106
Cataract*	7,555	7.0%	53,151	4.3%	2.718	0.118
Hip/Pelvic Fracture*	186	0.2%	1,276	0.1%	0.070	0.019
Alzheimer's Disease*	402	0.4%	1,546	0.1%	0.248	0.050
Atrial Fibrillation*	4,108	3.8%	15,649	1.3%	2.550	0.163
Diabetes*	17,901	16.6%	107,073	8.7%	7.966	0.241
Hyperlipidemia*	38,784	36.0%	250,546	20.3%	15.757	0.356
Heart Failure/Non-Ischemic Heart Disease*	4,783	4.4%	17,574	1.4%	3.021	0.180
Hypertension*	40,951	38.0%	262,877	21.3%	16.772	0.374
Ischemic Heart Disease*	9,561	8.9%	30,849	2.5%	6.385	0.278

Table 1s. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	30,110	28.0%	188,815	15.3%	12.694	0.312
Anemia*	13,740	12.8%	85,420	6.9%	5.852	0.197
Asthma*	14,204	13.2%	111,206	9.0%	4.198	0.134
Chronic Kidney Disease*	7,306	6.8%	37,512	3.0%	3.752	0.174
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,855	8.2%	55,144	4.5%	3.764	0.155
Osteoporosis*	5,051	4.7%	34,048	2.8%	1.937	0.102
Depression, Bipolar or Other Mood Disorders*	37,847	35.2%	301,071	24.4%	10.800	0.238
Hypothyroidism*	16,669	15.5%	117,489	9.5%	5.979	0.182
Pneumonia*	2,491	2.3%	18,877	1.5%	0.787	0.057
Parkinson's Disease*	710	0.7%	2,542	0.2%	0.454	0.069
Non-Alzheimer's Dementia*	1,637	1.5%	5,848	0.5%	1.047	0.106
Sleep Disorder*	17,925	16.6%	106,910	8.6%	8.001	0.242
Substance Use Disorder*	14,580	13.5%	133,899	10.8%	2.711	0.083
Anxiety*	40,803	37.9%	318,056	25.7%	12.172	0.264
Behavioral Disorders*	11,371	10.6%	93,406	7.6%	3.006	0.105
Sympathomimetics/Alpha-1 Agonists*	14,079	13.1%	107,742	8.7%	4.362	0.140
Ergot Derivatives and Methysergide*	281	0.3%	1,756	0.1%	0.119	0.027
Triptans/Ditans	297	0.3%	148	0.0%	0.264	0.070
Antihypertensives*	31,310	29.1%	225,748	18.3%	10.821	0.257
Major Surgical Procedure*	6,935	6.4%	58,539	4.7%	1.706	0.074
Stroke/Transient Ischemic Attack (TIA)*	9,923	9.2%	20,982	1.7%	7.519	0.336
Benign Prostatic Hyperplasia*	2,128	2.0%	12,261	1.0%	0.985	0.082

Table 1s. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
BMI Overweight/Obese*	26,007	24.2%	180,943	14.6%	9.520	0.243
Other Psychological Disorders*	2,407	2.2%	19,820	1.6%	0.632	0.046
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	23.0	21.1	13.5	16.0	9.444	0.505
Mean number of Non-Proprietarys dispensed	9.3	6.1	5.9	5.1	3.372	0.597
Mean number of unique drug classes dispensed	8.7	5.6	5.6	4.7	3.129	0.610
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.0	11.9	8.7	10.6	5.227	0.463
Mean number of emergency room encounters	0.6	1.5	0.5	1.2	0.104	0.077
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.3	0.030	0.089
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	0.003	0.025
Mean number of other ambulatory encounters	4.3	11.5	3.2	10.6	1.092	0.099

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1t. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	107,477	99.8%	107,477	8.7%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.9	13.3	49.0	13.9	-0.088	-0.006
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,255	12.3%	14,609	13.6%	-1.260	-0.038
30-39 years	20,182	18.8%	20,030	18.6%	0.141	0.004
40-49 years	24,627	22.9%	22,410	20.9%	2.063	0.050
50-59 years	21,852	20.3%	20,510	19.1%	1.249	0.031
≥ 60 years	27,561	25.6%	29,918	27.8%	-2.193	-0.050
Sex*						
Female	91,113	84.8%	91,429	85.1%	-0.294	-0.008
Male	16,364	15.2%	16,048	14.9%	0.294	0.008
Race*1						
American Indian or Alaska Native	426	0.4%	414	0.4%	0.011	0.002
Asian	1,544	1.4%	1,447	1.3%	0.090	0.008
Black or African American	8,523	7.9%	8,518	7.9%	0.005	0.000
Multi-racial	2,043	1.9%	2,089	1.9%	-0.043	-0.003
Native Hawaiian or Other Pacific Islander	317	0.3%	336	0.3%	-0.018	-0.003
Unknown	34,604	32.2%	34,400	32.0%	0.190	0.004
White	60,020	55.8%	60,273	56.1%	-0.235	-0.005

Table 1t. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	6,445	6.0%	7,070	6.6%	-0.582	-0.024
No	62,371	58.0%	62,413	58.1%	-0.039	-0.001
Unknown	38,661	36.0%	37,994	35.4%	0.621	0.013
Year*						
2020	8,806	8.2%	8,189	7.6%	0.574	0.021
2021	18,162	16.9%	17,673	16.4%	0.455	0.012
2022	27,098	25.2%	27,518	25.6%	-0.391	-0.009
2023	20,171	18.8%	20,249	18.8%	-0.073	-0.002
2024	23,467	21.8%	23,934	22.3%	-0.435	-0.010
2025	9,773	9.1%	9,914	9.2%	-0.131	-0.005
Health Characteristics						
Acute Myocardial Infarction*	910	0.8%	856	0.8%	0.050	0.006
Glaucoma*	4,832	4.5%	4,888	4.5%	-0.052	-0.003
Cataract*	7,526	7.0%	7,483	7.0%	0.040	0.002
Hip/Pelvic Fracture*	181	0.2%	189	0.2%	-0.007	-0.002
Alzheimer's Disease*	398	0.4%	403	0.4%	-0.005	-0.001
Atrial Fibrillation*	4,043	3.8%	3,908	3.6%	0.126	0.007
Diabetes*	17,805	16.6%	17,789	16.6%	0.015	0.000
Hyperlipidemia*	38,616	35.9%	38,483	35.8%	0.124	0.003
Heart Failure/Non-Ischemic Heart Disease*	4,722	4.4%	4,632	4.3%	0.084	0.004
Hypertension*	40,774	37.9%	40,808	38.0%	-0.032	-0.001
Ischemic Heart Disease*	9,440	8.8%	9,026	8.4%	0.385	0.014

Table 1t. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	29,990	27.9%	30,196	28.1%	-0.192	-0.004
Anemia*	13,657	12.7%	13,641	12.7%	0.015	0.000
Asthma*	14,144	13.2%	14,172	13.2%	-0.026	-0.001
Chronic Kidney Disease*	7,243	6.7%	7,285	6.8%	-0.039	-0.002
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,798	8.2%	8,926	8.3%	-0.119	-0.004
Osteoporosis*	5,040	4.7%	5,079	4.7%	-0.036	-0.002
Depression, Bipolar or Other Mood Disorders*	37,737	35.1%	37,924	35.3%	-0.174	-0.004
Hypothyroidism*	16,606	15.5%	16,576	15.4%	0.028	0.001
Pneumonia*	2,480	2.3%	2,495	2.3%	-0.014	-0.001
Parkinson's Disease*	697	0.6%	682	0.6%	0.014	0.002
Non-Alzheimer's Dementia*	1,616	1.5%	1,582	1.5%	0.032	0.003
Sleep Disorder*	17,843	16.6%	18,000	16.7%	-0.146	-0.004
Substance Use Disorder*	14,538	13.5%	14,439	13.4%	0.092	0.003
Anxiety*	40,681	37.9%	41,132	38.3%	-0.420	-0.009
Behavioral Disorders*	11,353	10.6%	11,399	10.6%	-0.043	-0.001
Sympathomimetics/Alpha-1 Agonists*	14,038	13.1%	14,129	13.1%	-0.085	-0.003
Ergot Derivatives and Methysergide*	279	0.3%	290	0.3%	-0.010	-0.002
Triptans/Ditans	296	0.3%	22	0.0%	0.255	0.066
Antihypertensives*	31,192	29.0%	31,052	28.9%	0.130	0.003
Major Surgical Procedure*	6,901	6.4%	6,865	6.4%	0.033	0.001
Stroke/Transient Ischemic Attack (TIA)*	9,740	9.1%	8,733	8.1%	0.937	0.033
Benign Prostatic Hyperplasia*	2,114	2.0%	2,160	2.0%	-0.043	-0.003

Table 1t. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
BMI Overweight/Obese*	25,904	24.1%	26,220	24.4%	-0.294	-0.007
Other Psychological Disorders*	2,399	2.2%	2,385	2.2%	0.013	0.001
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	22.9	21.1	18.7	19.5	4.271	0.210
Mean number of Non-Proprietarys dispensed	9.3	6.1	7.9	6.0	1.398	0.230
Mean number of unique drug classes dispensed	8.7	5.5	7.4	5.5	1.313	0.239
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.9	11.9	11.4	12.1	2.512	0.210
Mean number of emergency room encounters	0.6	1.5	0.6	1.6	-0.023	-0.015
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.4	-0.021	-0.052
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.008	-0.055
Mean number of other ambulatory encounters	4.3	11.5	4.0	11.3	0.285	0.025

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1u. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	202,186	100.0%	146,642	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	45.7	12.6	50.9	12.7	-5.196	-0.411
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	31,016	15.3%	14,012	9.6%	5.785	0.176
30-39 years	44,532	22.0%	27,217	18.6%	3.465	0.086
40-49 years	51,451	25.4%	32,615	22.2%	3.206	0.075
50-59 years	39,310	19.4%	28,156	19.2%	0.242	0.006
≥ 60 years	35,877	17.7%	44,642	30.4%	-12.698	-0.300
Sex*						
Female	172,864	85.5%	125,925	85.9%	-0.375	-0.011
Male	29,322	14.5%	20,717	14.1%	0.375	0.011
Race*1						
American Indian or Alaska Native	1,042	0.5%	1,152	0.8%	-0.270	-0.034
Asian	1,875	0.9%	2,057	1.4%	-0.475	-0.044
Black or African American	13,799	6.8%	7,398	5.0%	1.780	0.075
Multi-racial	2,517	1.2%	1,480	1.0%	0.236	0.022
Native Hawaiian or Other Pacific Islander	676	0.3%	505	0.3%	-0.010	-0.002
Unknown	64,116	31.7%	39,512	26.9%	4.767	0.105
White	118,161	58.4%	94,538	64.5%	-6.027	-0.124
Hispanic origin						
Yes	11,163	5.5%	9,851	6.7%	-1.197	-0.050
No	126,388	62.5%	100,421	68.5%	-5.970	-0.126
Unknown	64,635	32.0%	36,370	24.8%	7.166	0.159

Table 1u. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Year*	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
2018	10,755	5.3%	21,973	15.0%	-9.665	-0.324
2019	43,527	21.5%	27,182	18.5%	2.992	0.075
2020	41,708	20.6%	23,196	15.8%	4.810	0.125
2021	37,708	18.7%	22,241	15.2%	3.483	0.093
2022	34,648	17.1%	21,488	14.7%	2.483	0.068
2023	15,452	7.6%	12,769	8.7%	-1.065	-0.039
2024	13,334	6.6%	13,158	9.0%	-2.378	-0.089
2025	5,054	2.5%	4,635	3.2%	-0.661	-0.040
Health Characteristics						
Acute Myocardial Infarction*	731	0.4%	760	0.5%	-0.157	-0.024
Glaucoma*	6,345	3.1%	6,510	4.4%	-1.301	-0.068
Cataract*	10,173	5.0%	11,589	7.9%	-2.871	-0.117
Hip/Pelvic Fracture*	240	0.1%	301	0.2%	-0.087	-0.022
Alzheimer's Disease*	431	0.2%	651	0.4%	-0.231	-0.040
Atrial Fibrillation*	3,766	1.9%	4,470	3.0%	-1.186	-0.077
Diabetes*	25,178	12.5%	21,124	14.4%	-1.952	-0.057
Hyperlipidemia*	52,027	25.7%	45,462	31.0%	-5.270	-0.117
Heart Failure/Non-Ischemic Heart Disease*	4,674	2.3%	5,171	3.5%	-1.215	-0.072
Hypertension*	58,246	28.8%	49,517	33.8%	-4.959	-0.107
Ischemic Heart Disease*	8,851	4.4%	10,432	7.1%	-2.736	-0.118
Rheumatoid Arthritis/Osteoarthritis*	48,741	24.1%	50,465	34.4%	-10.307	-0.228
Anemia*	19,267	9.5%	17,502	11.9%	-2.406	-0.078
Asthma*	25,020	12.4%	18,065	12.3%	0.056	0.002

Table 1u. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Chronic Kidney Disease*	8,930	4.4%	8,689	5.9%	-1.509	-0.068
Chronic Obstructive Pulmonary Disease (COPD) and	14,268	7.1%	11,957	8.2%	-1.097	-0.041
Osteoporosis*	6,490	3.2%	8,676	5.9%	-2.707	-0.130
Depression, Bipolar or Other Mood Disorders*	73,547	36.4%	56,437	38.5%	-2.110	-0.044
Hypothyroidism*	27,238	13.5%	23,876	16.3%	-2.810	-0.079
Pneumonia*	3,997	2.0%	4,148	2.8%	-0.852	-0.056
Parkinson's Disease*	789	0.4%	1,437	1.0%	-0.590	-0.072
Non-Alzheimer's Dementia*	1,692	0.8%	2,509	1.7%	-0.874	-0.078
Sleep Disorder*	32,156	15.9%	24,986	17.0%	-1.135	-0.031
Substance Use Disorder*	28,148	13.9%	21,944	15.0%	-1.043	-0.030
Anxiety*	72,119	35.7%	53,128	36.2%	-0.560	-0.012
Behavioral Disorders*	18,668	9.2%	14,670	10.0%	-0.771	-0.026
Sympathomimetics/Alpha-1 Agonists*	24,996	12.4%	19,652	13.4%	-1.038	-0.031
Ergot Derivatives and Methysergide*	2,204	1.1%	1,429	1.0%	0.116	0.011
Triptans/Ditans*	118,616	58.7%	61,909	42.2%	16.449	0.334
Antihypertensives*	48,039	23.8%	40,184	27.4%	-3.643	-0.084
Major Surgical Procedure*	11,210	5.5%	10,979	7.5%	-1.943	-0.079
Stroke/Transient Ischemic Attack (TIA)*	8,091	4.0%	7,557	5.2%	-1.152	-0.055
Benign Prostatic Hyperplasia*	2,619	1.3%	3,416	2.3%	-1.034	-0.078
BMI Overweight/Obese*	40,476	20.0%	25,349	17.3%	2.733	0.070
Other Psychological Disorders*	5,034	2.5%	3,483	2.4%	0.115	0.007

Table 1u. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Medical Product Use	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of filled prescriptions	27.4	23.0	27.9	23.9	-0.539	-0.023
Mean number of Non-Proprietarys dispensed	10.3	6.3	10.4	6.5	-0.137	-0.021
Mean number of unique drug classes dispensed	9.6	5.6	9.7	5.8	-0.124	-0.022
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.4	12.0	15.7	13.3	-2.267	-0.179
Mean number of emergency room encounters	0.6	1.5	0.6	1.5	0.035	0.023
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.018	-0.052
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.005	-0.039
Mean number of other ambulatory encounters	4.4	13.4	5.0	13.7	-0.533	-0.039

[*] Covariate included in the propensity score logistic regression model.

[1] Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1v. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	120,065	59.4%	120,065	81.9%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.8	12.6	48.8	12.6	-0.007	-0.001
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,688	11.4%	12,911	10.8%	0.647	0.021
30-39 years	22,587	18.8%	24,636	20.5%	-1.707	-0.043
40-49 years	28,963	24.1%	28,900	24.1%	0.052	0.001
50-59 years	25,175	21.0%	23,948	19.9%	1.022	0.025
≥ 60 years	29,652	24.7%	29,670	24.7%	-0.015	-0.000
Sex*						
Female	103,541	86.2%	103,375	86.1%	0.138	0.004
Male	16,524	13.8%	16,690	13.9%	-0.138	-0.004
Race*1						
American Indian or Alaska Native	833	0.7%	870	0.7%	-0.031	-0.004
Asian	1,425	1.2%	1,431	1.2%	-0.005	-0.000
Black or African American	6,626	5.5%	6,622	5.5%	0.003	0.000
Multi-racial	1,383	1.2%	1,390	1.2%	-0.006	-0.001
Native Hawaiian or Other Pacific Islander	426	0.4%	434	0.4%	-0.007	-0.001
Unknown	33,891	28.2%	33,827	28.2%	0.053	0.001
White	75,481	62.9%	75,491	62.9%	-0.008	-0.000
Hispanic origin						
Yes	7,262	6.0%	8,415	7.0%	-0.960	-0.039
No	79,838	66.5%	79,910	66.6%	-0.060	-0.001
Unknown	32,965	27.5%	31,740	26.4%	1.020	0.023

Table 1v. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Year*	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
2018	9,897	8.2%	10,013	8.3%	-0.097	-0.004
2019	25,158	21.0%	24,959	20.8%	0.166	0.004
2020	22,052	18.4%	21,879	18.2%	0.144	0.004
2021	20,522	17.1%	20,606	17.2%	-0.070	-0.002
2022	19,145	15.9%	19,378	16.1%	-0.194	-0.005
2023	10,285	8.6%	10,341	8.6%	-0.047	-0.002
2024	9,491	7.9%	9,411	7.8%	0.067	0.002
2025	3,515	2.9%	3,478	2.9%	0.031	0.002
Health Characteristics						
Acute Myocardial Infarction*	538	0.4%	538	0.4%	0.000	0.000
Glaucoma*	4,623	3.9%	4,666	3.9%	-0.036	-0.002
Cataract*	8,022	6.7%	8,105	6.8%	-0.069	-0.003
Hip/Pelvic Fracture*	188	0.2%	196	0.2%	-0.007	-0.002
Alzheimer's Disease*	380	0.3%	376	0.3%	0.003	0.001
Atrial Fibrillation*	2,977	2.5%	2,935	2.4%	0.035	0.002
Diabetes*	16,232	13.5%	16,053	13.4%	0.149	0.004
Hyperlipidemia*	34,214	28.5%	34,192	28.5%	0.018	0.000
Heart Failure/Non-Ischemic Heart Disease*	3,546	3.0%	3,498	2.9%	0.040	0.002
Hypertension*	37,556	31.3%	37,355	31.1%	0.167	0.004
Ischemic Heart Disease*	6,862	5.7%	6,792	5.7%	0.058	0.003
Rheumatoid Arthritis/Osteoarthritis*	36,586	30.5%	36,488	30.4%	0.082	0.002
Anemia*	12,962	10.8%	12,833	10.7%	0.107	0.003
Asthma*	14,939	12.4%	14,859	12.4%	0.067	0.002

Table 1v. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Chronic Kidney Disease*	6,494	5.4%	6,407	5.3%	0.072	0.003
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	9,421	7.8%	9,320	7.8%	0.084	0.003
Osteoporosis*	5,521	4.6%	5,465	4.6%	0.047	0.002
Depression, Bipolar or Other Mood Disorders*	45,973	38.3%	45,820	38.2%	0.127	0.003
Hypothyroidism*	18,262	15.2%	18,230	15.2%	0.027	0.001
Pneumonia*	2,763	2.3%	2,703	2.3%	0.050	0.003
Parkinson's Disease*	738	0.6%	715	0.6%	0.019	0.002
Non-Alzheimer's Dementia*	1,452	1.2%	1,413	1.2%	0.032	0.003
Sleep Disorder*	19,940	16.6%	19,851	16.5%	0.074	0.002
Substance Use Disorder*	18,009	15.0%	17,970	15.0%	0.032	0.001
Anxiety*	43,764	36.5%	43,671	36.4%	0.077	0.002
Behavioral Disorders*	12,011	10.0%	12,001	10.0%	0.008	0.000
Sympathomimetics/Alpha-1 Agonists*	16,305	13.6%	16,223	13.5%	0.068	0.002
Ergot Derivatives and Methysergide*	1,263	1.1%	1,222	1.0%	0.034	0.003
Triptans/Ditans*	56,101	46.7%	56,233	46.8%	-0.110	-0.002
Antihypertensives*	31,042	25.9%	30,787	25.6%	0.212	0.005
Major Surgical Procedure*	8,124	6.8%	8,091	6.7%	0.027	0.001
Stroke/Transient Ischemic Attack (TIA)*	5,700	4.7%	5,644	4.7%	0.047	0.002
Benign Prostatic Hyperplasia*	2,056	1.7%	2,067	1.7%	-0.009	-0.001
BMI Overweight/Obese*	21,498	17.9%	21,485	17.9%	0.011	0.000
Other Psychological Disorders*	2,974	2.5%	2,967	2.5%	0.006	0.000

Table 1v. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome			
Medical Product Use	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of filled prescriptions	28.8	23.7	27.4	23.6	1.437	0.061
Mean number of Non-Proprietarys dispensed	10.6	6.4	10.3	6.5	0.364	0.056
Mean number of unique drug classes dispensed	9.9	5.7	9.6	5.9	0.348	0.060
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.3	12.4	15.2	13.2	-0.941	-0.073
Mean number of emergency room encounters	0.6	1.6	0.6	1.5	0.042	0.027
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.007	-0.021
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.001	-0.012
Mean number of other ambulatory encounters	4.7	13.8	4.9	13.8	-0.229	-0.017

[*] Covariate included in the propensity score logistic regression model.

[1] Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1w. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	86,646	100.0%	1,641,343	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.1	13.2	42.9	12.7	5.190	0.401
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	11,311	13.1%	394,596	24.0%	-10.987	-0.286
30-39 years	16,581	19.1%	402,069	24.5%	-5.360	-0.130
40-49 years	20,522	23.7%	333,853	20.3%	3.345	0.081
50-59 years	17,986	20.8%	232,511	14.2%	6.592	0.174
≥ 60 years	20,246	23.4%	278,314	17.0%	6.410	0.160
Sex*						
Female	72,501	83.7%	1,371,376	83.6%	0.123	0.003
Male	14,145	16.3%	269,967	16.4%	-0.123	-0.003
Race*1						
American Indian or Alaska Native	508	0.6%	11,948	0.7%	-0.142	-0.018
Asian	799	0.9%	31,081	1.9%	-0.971	-0.083
Black or African American	6,883	7.9%	139,470	8.5%	-0.553	-0.020
Multi-racial	915	1.1%	23,219	1.4%	-0.359	-0.032
Native Hawaiian or Other Pacific Islander	274	0.3%	6,496	0.4%	-0.080	-0.013
Unknown	24,333	28.1%	615,889	37.5%	-9.440	-0.202
White	52,934	61.1%	813,240	49.5%	11.545	0.234

Table 1w. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	4,851	5.6%	153,470	9.4%	-3.752	-0.143
No	57,922	66.8%	930,503	56.7%	10.157	0.210
Unknown	23,873	27.6%	557,370	34.0%	-6.406	-0.139
Year*						
2018	5,522	6.4%	204,707	12.5%	-6.099	-0.210
2019	19,405	22.4%	287,204	17.5%	4.898	0.123
2020	17,479	20.2%	270,892	16.5%	3.669	0.095
2021	15,148	17.5%	277,887	16.9%	0.552	0.015
2022	13,778	15.9%	271,487	16.5%	-0.639	-0.017
2023	7,002	8.1%	136,267	8.3%	-0.221	-0.008
2024	6,016	6.9%	138,459	8.4%	-1.493	-0.056
2025	2,296	2.6%	54,440	3.3%	-0.667	-0.039
Health Characteristics						
Acute Myocardial Infarction*	531	0.6%	3,810	0.2%	0.381	0.059
Glaucoma*	3,437	4.0%	40,009	2.4%	1.529	0.087
Cataract*	5,639	6.5%	66,751	4.1%	2.441	0.109
Hip/Pelvic Fracture*	132	0.2%	1,564	0.1%	0.057	0.016
Alzheimer's Disease*	342	0.4%	1,898	0.1%	0.279	0.055
Atrial Fibrillation*	2,692	3.1%	19,360	1.2%	1.927	0.133
Diabetes*	14,563	16.8%	139,474	8.5%	8.310	0.252
Hyperlipidemia*	27,499	31.7%	313,900	19.1%	12.613	0.293
Heart Failure/Non-Ischemic Heart Disease*	3,316	3.8%	22,295	1.4%	2.469	0.156
Hypertension*	31,736	36.6%	343,135	20.9%	15.721	0.353

Table 1w. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Ischemic Heart Disease*	6,682	7.7%	39,365	2.4%	5.313	0.244
Rheumatoid Arthritis/Osteoarthritis*	25,222	29.1%	245,086	14.9%	14.177	0.347
Anemia*	9,919	11.4%	111,884	6.8%	4.631	0.161
Asthma*	12,006	13.9%	148,420	9.0%	4.814	0.152
Chronic Kidney Disease*	5,365	6.2%	46,142	2.8%	3.381	0.164
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,048	9.3%	76,770	4.7%	4.611	0.182
Osteoporosis*	3,583	4.1%	41,014	2.5%	1.636	0.091
Depression, Bipolar or Other Mood Disorders*	34,245	39.5%	395,822	24.1%	15.407	0.335
Hypothyroidism*	13,386	15.4%	152,907	9.3%	6.133	0.187
Pneumonia*	2,102	2.4%	25,097	1.5%	0.897	0.064
Parkinson's Disease*	553	0.6%	3,156	0.2%	0.446	0.069
Non-Alzheimer's Dementia*	1,183	1.4%	7,337	0.4%	0.918	0.097
Sleep Disorder*	15,305	17.7%	139,118	8.5%	9.188	0.275
Substance Use Disorder*	13,944	16.1%	187,798	11.4%	4.651	0.135
Anxiety*	32,106	37.1%	408,514	24.9%	12.165	0.265
Behavioral Disorders*	7,825	9.0%	118,147	7.2%	1.833	0.067
Sympathomimetics/Alpha-1 Agonists*	10,755	12.4%	140,456	8.6%	3.855	0.126
Ergot Derivatives and Methysergide*	295	0.3%	2,425	0.1%	0.193	0.039
Triptans/Ditans	231	0.3%	128	0.0%	0.259	0.070
Antihypertensives*	24,895	28.7%	290,828	17.7%	11.013	0.263
Major Surgical Procedure*	5,671	6.5%	77,962	4.7%	1.795	0.078
Stroke/Transient Ischemic Attack (TIA)*	5,752	6.6%	28,468	1.7%	4.904	0.247

Table 1w. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	1,634	1.9%	15,070	0.9%	0.968	0.082
BMI Overweight/Obese*	18,904	21.8%	233,594	14.2%	7.586	0.198
Other Psychological Disorders*	2,517	2.9%	27,832	1.7%	1.209	0.081
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	27.6	24.0	13.8	16.4	13.764	0.671
Mean number of Non-Proprietarys dispensed	10.2	6.5	6.0	5.2	4.292	0.730
Mean number of unique drug classes dispensed	9.6	5.9	5.6	4.7	3.982	0.749
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.6	8.8	10.7	6.009	0.514
Mean number of emergency room encounters	0.7	1.6	0.5	1.3	0.136	0.091
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.3	0.024	0.069
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	0.002	0.019
Mean number of other ambulatory encounters	5.2	15.1	3.1	10.7	2.057	0.157

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1x. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	86,639	100.0%	86,639	5.3%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.1	13.2	48.1	13.6	0.005	0.000
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	11,311	13.1%	11,963	13.8%	-0.753	-0.022
30-39 years	16,580	19.1%	17,016	19.6%	-0.503	-0.013
40-49 years	20,521	23.7%	19,069	22.0%	1.676	0.040
50-59 years	17,984	20.8%	17,097	19.7%	1.024	0.025
≥ 60 years	20,243	23.4%	21,494	24.8%	-1.444	-0.034
Sex*						
Female	72,496	83.7%	72,834	84.1%	-0.390	-0.011
Male	14,143	16.3%	13,805	15.9%	0.390	0.011
Race*1						
American Indian or Alaska Native	508	0.6%	482	0.6%	0.030	0.004
Asian	799	0.9%	723	0.8%	0.088	0.009
Black or African American	6,881	7.9%	6,675	7.7%	0.238	0.009
Multi-racial	915	1.1%	886	1.0%	0.033	0.003
Native Hawaiian or Other Pacific Islander	274	0.3%	255	0.3%	0.022	0.004
Unknown	24,332	28.1%	23,871	27.6%	0.532	0.012
White	52,930	61.1%	53,747	62.0%	-0.943	-0.019

Table 1x. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	4,851	5.6%	5,314	6.1%	-0.534	-0.023
No	57,917	66.8%	58,163	67.1%	-0.284	-0.006
Unknown	23,871	27.6%	23,162	26.7%	0.818	0.018
Year*						
2018	5,522	6.4%	5,158	6.0%	0.420	0.017
2019	19,403	22.4%	19,546	22.6%	-0.165	-0.004
2020	17,478	20.2%	17,755	20.5%	-0.320	-0.008
2021	15,146	17.5%	15,187	17.5%	-0.047	-0.001
2022	13,777	15.9%	13,937	16.1%	-0.185	-0.005
2023	7,002	8.1%	6,941	8.0%	0.070	0.003
2024	6,015	6.9%	5,904	6.8%	0.128	0.005
2025	2,296	2.7%	2,211	2.6%	0.098	0.006
Health Characteristics						
Acute Myocardial Infarction*	531	0.6%	520	0.6%	0.013	0.002
Glaucoma*	3,435	4.0%	3,419	3.9%	0.018	0.001
Cataract*	5,637	6.5%	5,563	6.4%	0.085	0.003
Hip/Pelvic Fracture*	132	0.2%	130	0.2%	0.002	0.001
Alzheimer's Disease*	341	0.4%	325	0.4%	0.018	0.003
Atrial Fibrillation*	2,689	3.1%	2,504	2.9%	0.214	0.013
Diabetes*	14,558	16.8%	14,299	16.5%	0.299	0.008
Hyperlipidemia*	27,492	31.7%	27,247	31.4%	0.283	0.006
Heart Failure/Non-Ischemic Heart Disease*	3,312	3.8%	3,100	3.6%	0.245	0.013
Hypertension*	31,729	36.6%	31,437	36.3%	0.337	0.007

Table 1x. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Ischemic Heart Disease*	6,676	7.7%	6,157	7.1%	0.599	0.023
Rheumatoid Arthritis/Osteoarthritis*	25,216	29.1%	25,076	28.9%	0.162	0.004
Anemia*	9,914	11.4%	9,851	11.4%	0.073	0.002
Asthma*	12,002	13.9%	11,806	13.6%	0.226	0.007
Chronic Kidney Disease*	5,360	6.2%	5,278	6.1%	0.095	0.004
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,044	9.3%	7,829	9.0%	0.248	0.009
Osteoporosis*	3,580	4.1%	3,545	4.1%	0.040	0.002
Depression, Bipolar or Other Mood Disorders*	34,238	39.5%	34,473	39.8%	-0.271	-0.006
Hypothyroidism*	13,383	15.4%	13,365	15.4%	0.021	0.001
Pneumonia*	2,101	2.4%	2,030	2.3%	0.082	0.005
Parkinson's Disease*	551	0.6%	514	0.6%	0.043	0.005
Non-Alzheimer's Dementia*	1,181	1.4%	1,095	1.3%	0.099	0.009
Sleep Disorder*	15,301	17.7%	15,161	17.5%	0.162	0.004
Substance Use Disorder*	13,942	16.1%	13,920	16.1%	0.025	0.001
Anxiety*	32,099	37.0%	32,416	37.4%	-0.366	-0.008
Behavioral Disorders*	7,823	9.0%	7,904	9.1%	-0.093	-0.003
Sympathomimetics/Alpha-1 Agonists*	10,753	12.4%	10,738	12.4%	0.017	0.001
Ergot Derivatives and Methysergide*	295	0.3%	293	0.3%	0.002	0.000
Triptans/Ditans	231	0.3%	*****	*****	*****	*****
Antihypertensives*	24,889	28.7%	24,877	28.7%	0.014	0.000
Major Surgical Procedure*	5,667	6.5%	5,594	6.5%	0.084	0.003
Stroke/Transient Ischemic Attack (TIA)*	5,745	6.6%	5,088	5.9%	0.758	0.031

Table 1x. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	1,632	1.9%	1,594	1.8%	0.044	0.003
BMI Overweight/Obese*	18,901	21.8%	18,970	21.9%	-0.080	-0.002
Other Psychological Disorders*	2,517	2.9%	2,492	2.9%	0.029	0.002
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	27.6	24.0	20.9	21.4	6.686	0.294
Mean number of Non-Proprietarys dispensed	10.2	6.5	8.3	6.3	1.943	0.304
Mean number of unique drug classes dispensed	9.6	5.9	7.8	5.6	1.819	0.316
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.6	11.8	12.5	2.983	0.238
Mean number of emergency room encounters	0.7	1.6	0.7	1.8	-0.039	-0.023
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.5	-0.028	-0.067
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.009	-0.059
Mean number of other ambulatory encounters	5.2	15.1	4.4	12.7	0.789	0.057

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Table 1y. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	196,551	100.0%	107,555	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	46.7	13.1	51.8	12.6	-5.142	-0.399
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	29,821	15.2%	9,882	9.2%	5.984	0.184
30-39 years	41,252	21.0%	19,010	17.7%	3.313	0.084
40-49 years	47,194	24.0%	22,672	21.1%	2.932	0.070
50-59 years	37,483	19.1%	20,233	18.8%	0.259	0.007
≥ 60 years	40,801	20.8%	35,758	33.2%	-12.488	-0.284
Sex*						
Female	168,069	85.5%	92,490	86.0%	-0.484	-0.014
Male	28,482	14.5%	15,065	14.0%	0.484	0.014
Race*1						
American Indian or Alaska Native	685	0.3%	761	0.7%	-0.359	-0.050
Asian	2,932	1.5%	1,576	1.5%	0.026	0.002
Black or African American	14,090	7.2%	5,358	5.0%	2.187	0.092
Multi-racial	4,219	2.1%	1,177	1.1%	1.052	0.083
Native Hawaiian or Other Pacific Islander	673	0.3%	382	0.4%	-0.013	-0.002
Unknown	67,390	34.3%	28,471	26.5%	7.815	0.171
White	106,562	54.2%	69,830	64.9%	-10.709	-0.220

Table 1y. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	11,453	5.8%	7,319	6.8%	-0.978	-0.040
No	108,223	55.1%	73,700	68.5%	-13.462	-0.280
Unknown	76,875	39.1%	26,536	24.7%	14.440	0.314
Year*						
2020	15,251	7.8%	27,431	25.5%	-17.745	-0.491
2021	33,059	16.8%	24,994	23.2%	-6.419	-0.161
2022	50,370	25.6%	23,286	21.7%	3.977	0.094
2023	35,980	18.3%	13,489	12.5%	5.764	0.160
2024	43,538	22.2%	13,649	12.7%	9.461	0.251
2025	18,353	9.3%	4,706	4.4%	4.962	0.197
Health Characteristics						
Acute Myocardial Infarction*	1,291	0.7%	601	0.6%	0.098	0.013
Glaucoma*	7,275	3.7%	4,972	4.6%	-0.921	-0.046
Cataract*	11,173	5.7%	8,826	8.2%	-2.522	-0.099
Hip/Pelvic Fracture*	254	0.1%	246	0.2%	-0.099	-0.024
Alzheimer's Disease*	518	0.3%	538	0.5%	-0.237	-0.038
Atrial Fibrillation*	5,232	2.7%	3,519	3.3%	-0.610	-0.036
Diabetes*	25,725	13.1%	16,011	14.9%	-1.798	-0.052
Hyperlipidemia*	60,378	30.7%	35,201	32.7%	-2.010	-0.043
Heart Failure/Non-Ischemic Heart Disease*	5,920	3.0%	4,099	3.8%	-0.799	-0.044
Hypertension*	61,666	31.4%	36,991	34.4%	-3.019	-0.064

Table 1y. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Ischemic Heart Disease*	11,822	6.0%	8,165	7.6%	-1.577	-0.063
Rheumatoid Arthritis/Osteoarthritis*	45,685	23.2%	37,790	35.1%	-11.892	-0.264
Anemia*	21,443	10.9%	13,263	12.3%	-1.422	-0.044
Asthma*	23,075	11.7%	12,986	12.1%	-0.334	-0.010
Chronic Kidney Disease*	10,069	5.1%	6,921	6.4%	-1.312	-0.056
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	13,065	6.6%	8,475	7.9%	-1.233	-0.048
Osteoporosis*	7,424	3.8%	6,904	6.4%	-2.642	-0.120
Depression, Bipolar or Other Mood Disorders*	63,709	32.4%	40,755	37.9%	-5.479	-0.115
Hypothyroidism*	26,872	13.7%	17,863	16.6%	-2.936	-0.082
Pneumonia*	3,896	2.0%	3,167	2.9%	-0.962	-0.062
Parkinson's Disease*	951	0.5%	1,093	1.0%	-0.532	-0.062
Non-Alzheimer's Dementia*	2,063	1.0%	1,992	1.9%	-0.802	-0.067
Sleep Disorder*	29,866	15.2%	18,207	16.9%	-1.733	-0.047
Substance Use Disorder*	23,685	12.1%	15,039	14.0%	-1.932	-0.057
Anxiety*	71,667	36.5%	39,387	36.6%	-0.158	-0.003
Behavioral Disorders*	20,310	10.3%	11,218	10.4%	-0.097	-0.003
Sympathomimetics/Alpha-1 Agonists*	24,201	12.3%	14,569	13.5%	-1.233	-0.037
Ergot Derivatives and Methysergide*	1,071	0.5%	756	0.7%	-0.158	-0.020
Triptans/Ditans*	95,782	48.7%	43,064	40.0%	8.692	0.176
Antihypertensives*	48,796	24.8%	30,151	28.0%	-3.207	-0.073
Major Surgical Procedure*	10,684	5.4%	8,093	7.5%	-2.089	-0.085

Table 1y. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Stroke/Transient Ischemic Attack (TIA)*	12,822	6.5%	5,444	5.1%	1.462	0.063
Benign Prostatic Hyperplasia*	3,008	1.5%	2,798	2.6%	-1.071	-0.075
BMI Overweight/Obese*	44,603	22.7%	18,820	17.5%	5.195	0.130
Other Psychological Disorders*	3,710	1.9%	2,382	2.2%	-0.327	-0.023
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	22.3	20.2	26.5	23.2	-4.209	-0.194
Mean number of Non-Proprietarys dispensed	9.2	5.9	10.1	6.4	-0.917	-0.149
Mean number of unique drug classes dispensed	8.5	5.3	9.4	5.8	-0.876	-0.157
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	12.6	11.4	15.3	13.2	-2.699	-0.219
Mean number of emergency room encounters	0.5	1.4	0.5	1.3	0.044	0.032
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.008	-0.022
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.004	-0.031
Mean number of other ambulatory encounters	3.8	10.3	5.1	13.4	-1.316	-0.110

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1z. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	87,161	44.3%	87,161	81.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	50.5	12.8	50.5	12.7	0.054	0.004
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	9,262	10.6%	8,948	10.3%	0.360	0.012
30-39 years	15,383	17.6%	16,530	19.0%	-1.316	-0.034
40-49 years	19,241	22.1%	19,139	22.0%	0.117	0.003
50-59 years	17,345	19.9%	16,425	18.8%	1.056	0.027
≥ 60 years	25,930	29.7%	26,119	30.0%	-0.217	-0.005
Sex*						
Female	75,148	86.2%	75,081	86.1%	0.077	0.002
Male	12,013	13.8%	12,080	13.9%	-0.077	-0.002
Race*1						
American Indian or Alaska Native	510	0.6%	490	0.6%	0.023	0.003
Asian	1,298	1.5%	1,287	1.5%	0.013	0.001
Black or African American	4,757	5.5%	4,764	5.5%	-0.008	-0.000
Multi-racial	1,109	1.3%	1,118	1.3%	-0.010	-0.001
Native Hawaiian or Other Pacific Islander	315	0.4%	334	0.4%	-0.022	-0.004
Unknown	24,552	28.2%	24,587	28.2%	-0.040	-0.001
White	54,620	62.7%	54,581	62.6%	0.045	0.001

Table 1z. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	5,258	6.0%	6,062	7.0%	-0.922	-0.037
No	57,158	65.6%	57,206	65.6%	-0.055	-0.001
Unknown	24,745	28.4%	23,893	27.4%	0.978	0.022
Year*						
2020	12,891	14.8%	13,170	15.1%	-0.320	-0.009
2021	21,760	25.0%	21,470	24.6%	0.333	0.008
2022	22,000	25.2%	22,066	25.3%	-0.076	-0.002
2023	13,042	15.0%	12,930	14.8%	0.128	0.004
2024	12,939	14.8%	12,956	14.9%	-0.020	-0.001
2025	4,529	5.2%	4,569	5.2%	-0.046	-0.002
Health Characteristics						
Acute Myocardial Infarction*	553	0.6%	525	0.6%	0.032	0.004
Glaucoma*	3,944	4.5%	3,946	4.5%	-0.002	-0.000
Cataract*	6,747	7.7%	6,765	7.8%	-0.021	-0.001
Hip/Pelvic Fracture*	175	0.2%	177	0.2%	-0.002	-0.001
Alzheimer's Disease*	357	0.4%	366	0.4%	-0.010	-0.002
Atrial Fibrillation*	2,844	3.3%	2,805	3.2%	0.045	0.003
Diabetes*	12,636	14.5%	12,553	14.4%	0.095	0.003
Hyperlipidemia*	27,990	32.1%	28,020	32.1%	-0.034	-0.001
Heart Failure/Non-Ischemic Heart Disease*	3,190	3.7%	3,170	3.6%	0.023	0.001
Hypertension*	29,399	33.7%	29,297	33.6%	0.117	0.002

Table 1z. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Ischemic Heart Disease*	6,242	7.2%	6,178	7.1%	0.073	0.003
Rheumatoid Arthritis/Osteoarthritis*	27,859	32.0%	27,888	32.0%	-0.033	-0.001
Anemia*	10,314	11.8%	10,315	11.8%	-0.001	-0.000
Asthma*	10,628	12.2%	10,601	12.2%	0.031	0.001
Chronic Kidney Disease*	5,355	6.1%	5,433	6.2%	-0.089	-0.004
Chronic Obstructive Pulmonary Disease (COPD) and	6,667	7.6%	6,710	7.7%	-0.049	-0.002
Osteoporosis*	4,990	5.7%	4,973	5.7%	0.020	0.001
Depression, Bipolar or Other Mood Disorders*	32,147	36.9%	31,963	36.7%	0.211	0.004
Hypothyroidism*	13,822	15.9%	13,932	16.0%	-0.126	-0.003
Pneumonia*	2,201	2.5%	2,186	2.5%	0.017	0.001
Parkinson's Disease*	722	0.8%	696	0.8%	0.030	0.003
Non-Alzheimer's Dementia*	1,394	1.6%	1,382	1.6%	0.014	0.001
Sleep Disorder*	14,457	16.6%	14,446	16.6%	0.013	0.000
Substance Use Disorder*	11,972	13.7%	12,038	13.8%	-0.076	-0.002
Anxiety*	32,168	36.9%	32,171	36.9%	-0.003	-0.000
Behavioral Disorders*	9,201	10.6%	9,191	10.5%	0.011	0.000
Sympathomimetics/Alpha-1 Agonists*	11,675	13.4%	11,696	13.4%	-0.024	-0.001
Ergot Derivatives and Methysergide*	581	0.7%	606	0.7%	-0.029	-0.003
Triptans/Ditans*	36,447	41.8%	36,546	41.9%	-0.114	-0.002
Antihypertensives*	23,878	27.4%	23,803	27.3%	0.086	0.002
Major Surgical Procedure*	6,075	7.0%	6,029	6.9%	0.053	0.002

Table 1z. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Stroke/Transient Ischemic Attack (TIA)*	4,819	5.5%	4,833	5.5%	-0.016	-0.001
Benign Prostatic Hyperplasia*	1,955	2.2%	1,923	2.2%	0.037	0.002
BMI Overweight/Obese*	15,975	18.3%	16,072	18.4%	-0.111	-0.003
Other Psychological Disorders*	1,906	2.2%	1,924	2.2%	-0.021	-0.001
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	25.7	22.4	25.5	22.6	0.250	0.011
Mean number of Non-Proprietarys dispensed	10.1	6.2	9.9	6.4	0.197	0.031
Mean number of unique drug classes dispensed	9.4	5.6	9.2	5.7	0.164	0.029
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.9	12.2	15.1	13.2	-1.204	-0.095
Mean number of emergency room encounters	0.6	1.4	0.5	1.4	0.064	0.046
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.001	-0.003
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.001	-0.006
Mean number of other ambulatory encounters	4.5	11.8	5.0	13.1	-0.447	-0.036

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1aa. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	107,666	100.0%	1,236,315	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.9	13.3	43.6	12.8	5.368	0.412
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,257	12.3%	286,445	23.2%	-10.856	-0.287
30-39 years	20,187	18.7%	296,295	24.0%	-5.216	-0.128
40-49 years	24,652	22.9%	248,731	20.1%	2.778	0.068
50-59 years	21,912	20.4%	175,959	14.2%	6.119	0.162
≥ 60 years	27,658	25.7%	228,885	18.5%	7.175	0.174
Sex*						
Female	91,260	84.8%	1,033,045	83.6%	1.204	0.033
Male	16,406	15.2%	203,270	16.4%	-1.204	-0.033
Race*1						
American Indian or Alaska Native	426	0.4%	8,432	0.7%	-0.286	-0.039
Asian	1,544	1.4%	23,500	1.9%	-0.467	-0.036
Black or African American	8,551	7.9%	103,666	8.4%	-0.443	-0.016
Multi-racial	2,043	1.9%	19,073	1.5%	0.355	0.027
Native Hawaiian or Other Pacific Islander	317	0.3%	5,247	0.4%	-0.130	-0.022
Unknown	34,657	32.2%	454,095	36.7%	-4.540	-0.096
White	60,128	55.8%	622,302	50.3%	5.512	0.111

Table 1aa. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	6,452	6.0%	111,604	9.0%	-3.035	-0.115
No	62,504	58.1%	703,168	56.9%	1.177	0.024
Unknown	38,710	36.0%	421,543	34.1%	1.857	0.039
Year*						
2020	8,806	8.2%	307,580	24.9%	-16.700	-0.461
2021	18,168	16.9%	303,094	24.5%	-7.642	-0.189
2022	27,123	25.2%	286,758	23.2%	1.997	0.047
2023	20,208	18.8%	141,631	11.5%	7.313	0.205
2024	23,550	21.9%	141,857	11.5%	10.399	0.282
2025	9,811	9.1%	55,395	4.5%	4.632	0.185
Health Characteristics						
Acute Myocardial Infarction*	924	0.9%	2,990	0.2%	0.616	0.083
Glaucoma*	4,856	4.5%	31,559	2.6%	1.958	0.106
Cataract*	7,555	7.0%	53,151	4.3%	2.718	0.118
Hip/Pelvic Fracture*	186	0.2%	1,276	0.1%	0.070	0.019
Alzheimer's Disease*	402	0.4%	1,546	0.1%	0.248	0.050
Atrial Fibrillation*	4,108	3.8%	15,649	1.3%	2.550	0.163
Diabetes*	17,901	16.6%	107,073	8.7%	7.966	0.241
Hyperlipidemia*	38,784	36.0%	250,546	20.3%	15.757	0.356
Heart Failure/Non-Ischemic Heart Disease*	4,783	4.4%	17,574	1.4%	3.021	0.180
Hypertension*	40,951	38.0%	262,877	21.3%	16.772	0.374

Table 1aa. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Ischemic Heart Disease*	9,561	8.9%	30,849	2.5%	6.385	0.278
Rheumatoid Arthritis/Osteoarthritis*	30,110	28.0%	188,815	15.3%	12.694	0.312
Anemia*	13,740	12.8%	85,420	6.9%	5.852	0.197
Asthma*	14,204	13.2%	111,206	9.0%	4.198	0.134
Chronic Kidney Disease*	7,306	6.8%	37,512	3.0%	3.752	0.174
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,855	8.2%	55,144	4.5%	3.764	0.155
Osteoporosis*	5,051	4.7%	34,048	2.8%	1.937	0.102
Depression, Bipolar or Other Mood Disorders*	37,847	35.2%	301,071	24.4%	10.800	0.238
Hypothyroidism*	16,669	15.5%	117,489	9.5%	5.979	0.182
Pneumonia*	2,491	2.3%	18,877	1.5%	0.787	0.057
Parkinson's Disease*	710	0.7%	2,542	0.2%	0.454	0.069
Non-Alzheimer's Dementia*	1,637	1.5%	5,848	0.5%	1.047	0.106
Sleep Disorder*	17,925	16.6%	106,910	8.6%	8.001	0.242
Substance Use Disorder*	14,580	13.5%	133,899	10.8%	2.711	0.083
Anxiety*	40,803	37.9%	318,056	25.7%	12.172	0.264
Behavioral Disorders*	11,371	10.6%	93,406	7.6%	3.006	0.105
Sympathomimetics/Alpha-1 Agonists*	14,079	13.1%	107,742	8.7%	4.362	0.140
Ergot Derivatives and Methysergide*	281	0.3%	1,756	0.1%	0.119	0.027
Triptans/Ditans	297	0.3%	148	0.0%	0.264	0.070
Antihypertensives*	31,310	29.1%	225,748	18.3%	10.821	0.257
Major Surgical Procedure*	6,935	6.4%	58,539	4.7%	1.706	0.074

Table 1aa. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Stroke/Transient Ischemic Attack (TIA)*	9,923	9.2%	20,982	1.7%	7.519	0.336
Benign Prostatic Hyperplasia*	2,128	2.0%	12,261	1.0%	0.985	0.082
BMI Overweight/Obese*	26,007	24.2%	180,943	14.6%	9.520	0.243
Other Psychological Disorders*	2,407	2.2%	19,820	1.6%	0.632	0.046
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	23.0	21.1	13.5	16.0	9.444	0.505
Mean number of Non-Proprietarys dispensed	9.3	6.1	5.9	5.1	3.372	0.597
Mean number of unique drug classes dispensed	8.7	5.6	5.6	4.7	3.129	0.610
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.0	11.9	8.7	10.6	5.227	0.463
Mean number of emergency room encounters	0.6	1.5	0.5	1.2	0.104	0.077
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.3	0.030	0.089
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	0.003	0.025
Mean number of other ambulatory encounters	4.3	11.5	3.2	10.6	1.092	0.099

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1ab. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	107,477	99.8%	107,477	8.7%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)[*]	48.9	13.3	49.0	13.9	-0.088	-0.006
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,255	12.3%	14,609	13.6%	-1.260	-0.038
30-39 years	20,182	18.8%	20,030	18.6%	0.141	0.004
40-49 years	24,627	22.9%	22,410	20.9%	2.063	0.050
50-59 years	21,852	20.3%	20,510	19.1%	1.249	0.031
≥ 60 years	27,561	25.6%	29,918	27.8%	-2.193	-0.050
Sex[*]						
Female	91,113	84.8%	91,429	85.1%	-0.294	-0.008
Male	16,364	15.2%	16,048	14.9%	0.294	0.008
Race[*1]						
American Indian or Alaska Native	426	0.4%	414	0.4%	0.011	0.002
Asian	1,544	1.4%	1,447	1.3%	0.090	0.008
Black or African American	8,523	7.9%	8,518	7.9%	0.005	0.000
Multi-racial	2,043	1.9%	2,089	1.9%	-0.043	-0.003
Native Hawaiian or Other Pacific Islander	317	0.3%	336	0.3%	-0.018	-0.003
Unknown	34,604	32.2%	34,400	32.0%	0.190	0.004
White	60,020	55.8%	60,273	56.1%	-0.235	-0.005

Table 1ab. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	6,445	6.0%	7,070	6.6%	-0.582	-0.024
No	62,371	58.0%	62,413	58.1%	-0.039	-0.001
Unknown	38,661	36.0%	37,994	35.4%	0.621	0.013
Year*						
2020	8,806	8.2%	8,189	7.6%	0.574	0.021
2021	18,162	16.9%	17,673	16.4%	0.455	0.012
2022	27,098	25.2%	27,518	25.6%	-0.391	-0.009
2023	20,171	18.8%	20,249	18.8%	-0.073	-0.002
2024	23,467	21.8%	23,934	22.3%	-0.435	-0.010
2025	9,773	9.1%	9,914	9.2%	-0.131	-0.005
Health Characteristics						
Acute Myocardial Infarction*	910	0.8%	856	0.8%	0.050	0.006
Glaucoma*	4,832	4.5%	4,888	4.5%	-0.052	-0.003
Cataract*	7,526	7.0%	7,483	7.0%	0.040	0.002
Hip/Pelvic Fracture*	181	0.2%	189	0.2%	-0.007	-0.002
Alzheimer's Disease*	398	0.4%	403	0.4%	-0.005	-0.001
Atrial Fibrillation*	4,043	3.8%	3,908	3.6%	0.126	0.007
Diabetes*	17,805	16.6%	17,789	16.6%	0.015	0.000
Hyperlipidemia*	38,616	35.9%	38,483	35.8%	0.124	0.003
Heart Failure/Non-Ischemic Heart Disease*	4,722	4.4%	4,632	4.3%	0.084	0.004
Hypertension*	40,774	37.9%	40,808	38.0%	-0.032	-0.001

Table 1ab. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Ischemic Heart Disease*	9,440	8.8%	9,026	8.4%	0.385	0.014
Rheumatoid Arthritis/Osteoarthritis*	29,990	27.9%	30,196	28.1%	-0.192	-0.004
Anemia*	13,657	12.7%	13,641	12.7%	0.015	0.000
Asthma*	14,144	13.2%	14,172	13.2%	-0.026	-0.001
Chronic Kidney Disease*	7,243	6.7%	7,285	6.8%	-0.039	-0.002
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,798	8.2%	8,926	8.3%	-0.119	-0.004
Osteoporosis*	5,040	4.7%	5,079	4.7%	-0.036	-0.002
Depression, Bipolar or Other Mood Disorders*	37,737	35.1%	37,924	35.3%	-0.174	-0.004
Hypothyroidism*	16,606	15.5%	16,576	15.4%	0.028	0.001
Pneumonia*	2,480	2.3%	2,495	2.3%	-0.014	-0.001
Parkinson's Disease*	697	0.6%	682	0.6%	0.014	0.002
Non-Alzheimer's Dementia*	1,616	1.5%	1,582	1.5%	0.032	0.003
Sleep Disorder*	17,843	16.6%	18,000	16.7%	-0.146	-0.004
Substance Use Disorder*	14,538	13.5%	14,439	13.4%	0.092	0.003
Anxiety*	40,681	37.9%	41,132	38.3%	-0.420	-0.009
Behavioral Disorders*	11,353	10.6%	11,399	10.6%	-0.043	-0.001
Sympathomimetics/Alpha-1 Agonists*	14,038	13.1%	14,129	13.1%	-0.085	-0.003
Ergot Derivatives and Methysergide*	279	0.3%	290	0.3%	-0.010	-0.002
Triptans/Ditans	296	0.3%	22	0.0%	0.255	0.066
Antihypertensives*	31,192	29.0%	31,052	28.9%	0.130	0.003
Major Surgical Procedure*	6,901	6.4%	6,865	6.4%	0.033	0.001

Table 1ab. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Stroke/Transient Ischemic Attack (TIA)*	9,740	9.1%	8,733	8.1%	0.937	0.033
Benign Prostatic Hyperplasia*	2,114	2.0%	2,160	2.0%	-0.043	-0.003
BMI Overweight/Obese*	25,904	24.1%	26,220	24.4%	-0.294	-0.007
Other Psychological Disorders*	2,399	2.2%	2,385	2.2%	0.013	0.001
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	22.9	21.1	18.7	19.5	4.271	0.210
Mean number of Non-Proprietarys dispensed	9.3	6.1	7.9	6.0	1.398	0.230
Mean number of unique drug classes dispensed	8.7	5.5	7.4	5.5	1.313	0.239
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.9	11.9	11.4	12.1	2.512	0.210
Mean number of emergency room encounters	0.6	1.5	0.6	1.6	-0.023	-0.015
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.4	-0.021	-0.052
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.008	-0.055
Mean number of other ambulatory encounters	4.3	11.5	4.0	11.3	0.285	0.025

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1ac. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	202,186	100.0%	146,642	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	45.7	12.6	50.9	12.7	-5.196	-0.411
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	31,016	15.3%	14,012	9.6%	5.785	0.176
30-39 years	44,532	22.0%	27,217	18.6%	3.465	0.086
40-49 years	51,451	25.4%	32,615	22.2%	3.206	0.075
50-59 years	39,310	19.4%	28,156	19.2%	0.242	0.006
≥ 60 years	35,877	17.7%	44,642	30.4%	-12.698	-0.300
Sex*						
Female	172,864	85.5%	125,925	85.9%	-0.375	-0.011
Male	29,322	14.5%	20,717	14.1%	0.375	0.011
Race*1						
American Indian or Alaska Native	1,042	0.5%	1,152	0.8%	-0.270	-0.034
Asian	1,875	0.9%	2,057	1.4%	-0.475	-0.044
Black or African American	13,799	6.8%	7,398	5.0%	1.780	0.075
Multi-racial	2,517	1.2%	1,480	1.0%	0.236	0.022
Native Hawaiian or Other Pacific Islander	676	0.3%	505	0.3%	-0.010	-0.002
Unknown	64,116	31.7%	39,512	26.9%	4.767	0.105
White	118,161	58.4%	94,538	64.5%	-6.027	-0.124

Table 1ac. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	11,163	5.5%	9,851	6.7%	-1.197	-0.050
No	126,388	62.5%	100,421	68.5%	-5.970	-0.126
Unknown	64,635	32.0%	36,370	24.8%	7.166	0.159
Year*						
2018	10,755	5.3%	21,973	15.0%	-9.665	-0.324
2019	43,527	21.5%	27,182	18.5%	2.992	0.075
2020	41,708	20.6%	23,196	15.8%	4.810	0.125
2021	37,708	18.7%	22,241	15.2%	3.483	0.093
2022	34,648	17.1%	21,488	14.7%	2.483	0.068
2023	15,452	7.6%	12,769	8.7%	-1.065	-0.039
2024	13,334	6.6%	13,158	9.0%	-2.378	-0.089
2025	5,054	2.5%	4,635	3.2%	-0.661	-0.040
Health Characteristics						
Acute Myocardial Infarction*	731	0.4%	760	0.5%	-0.157	-0.024
Glaucoma*	6,345	3.1%	6,510	4.4%	-1.301	-0.068
Cataract*	10,173	5.0%	11,589	7.9%	-2.871	-0.117
Hip/Pelvic Fracture*	240	0.1%	301	0.2%	-0.087	-0.022
Alzheimer's Disease*	431	0.2%	651	0.4%	-0.231	-0.040
Atrial Fibrillation*	3,766	1.9%	4,470	3.0%	-1.186	-0.077
Diabetes*	25,178	12.5%	21,124	14.4%	-1.952	-0.057
Hyperlipidemia*	52,027	25.7%	45,462	31.0%	-5.270	-0.117

Table 1ac. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Heart Failure/Non-Ischemic Heart Disease*	4,674	2.3%	5,171	3.5%	-1.215	-0.072
Hypertension*	58,246	28.8%	49,517	33.8%	-4.959	-0.107
Ischemic Heart Disease*	8,851	4.4%	10,432	7.1%	-2.736	-0.118
Rheumatoid Arthritis/Osteoarthritis*	48,741	24.1%	50,465	34.4%	-10.307	-0.228
Anemia*	19,267	9.5%	17,502	11.9%	-2.406	-0.078
Asthma*	25,020	12.4%	18,065	12.3%	0.056	0.002
Chronic Kidney Disease*	8,930	4.4%	8,689	5.9%	-1.509	-0.068
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	14,268	7.1%	11,957	8.2%	-1.097	-0.041
Osteoporosis*	6,490	3.2%	8,676	5.9%	-2.707	-0.130
Depression, Bipolar or Other Mood Disorders*	73,547	36.4%	56,437	38.5%	-2.110	-0.044
Hypothyroidism*	27,238	13.5%	23,876	16.3%	-2.810	-0.079
Pneumonia*	3,997	2.0%	4,148	2.8%	-0.852	-0.056
Parkinson's Disease*	789	0.4%	1,437	1.0%	-0.590	-0.072
Non-Alzheimer's Dementia*	1,692	0.8%	2,509	1.7%	-0.874	-0.078
Sleep Disorder*	32,156	15.9%	24,986	17.0%	-1.135	-0.031
Substance Use Disorder*	28,148	13.9%	21,944	15.0%	-1.043	-0.030
Anxiety*	72,119	35.7%	53,128	36.2%	-0.560	-0.012
Behavioral Disorders*	18,668	9.2%	14,670	10.0%	-0.771	-0.026
Sympathomimetics/Alpha-1 Agonists*	24,996	12.4%	19,652	13.4%	-1.038	-0.031
Ergot Derivatives and Methysergide*	2,204	1.1%	1,429	1.0%	0.116	0.011
Triptans/Ditans*	118,616	58.7%	61,909	42.2%	16.449	0.334

Table 1ac. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Antihypertensives*	48,039	23.8%	40,184	27.4%	-3.643	-0.084
Major Surgical Procedure*	11,210	5.5%	10,979	7.5%	-1.943	-0.079
Stroke/Transient Ischemic Attack (TIA)*	8,091	4.0%	7,557	5.2%	-1.152	-0.055
Benign Prostatic Hyperplasia*	2,619	1.3%	3,416	2.3%	-1.034	-0.078
BMI Overweight/Obese*	40,476	20.0%	25,349	17.3%	2.733	0.070
Other Psychological Disorders*	5,034	2.5%	3,483	2.4%	0.115	0.007
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	27.4	23.0	27.9	23.9	-0.539	-0.023
Mean number of Non-Proprietarys dispensed	10.3	6.3	10.4	6.5	-0.137	-0.021
Mean number of unique drug classes dispensed	9.6	5.6	9.7	5.8	-0.124	-0.022
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.4	12.0	15.7	13.3	-2.267	-0.179
Mean number of emergency room encounters	0.6	1.5	0.6	1.5	0.035	0.023
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.018	-0.052
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.005	-0.039
Mean number of other ambulatory encounters	4.4	13.4	5.0	13.7	-0.533	-0.039

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1ad. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	120,065	59.4%	120,065	81.9%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.8	12.6	48.8	12.6	-0.007	-0.001
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	13,688	11.4%	12,911	10.8%	0.647	0.021
30-39 years	22,587	18.8%	24,636	20.5%	-1.707	-0.043
40-49 years	28,963	24.1%	28,900	24.1%	0.052	0.001
50-59 years	25,175	21.0%	23,948	19.9%	1.022	0.025
≥ 60 years	29,652	24.7%	29,670	24.7%	-0.015	-0.000
Sex*						
Female	103,541	86.2%	103,375	86.1%	0.138	0.004
Male	16,524	13.8%	16,690	13.9%	-0.138	-0.004
Race*1						
American Indian or Alaska Native	833	0.7%	870	0.7%	-0.031	-0.004
Asian	1,425	1.2%	1,431	1.2%	-0.005	-0.000
Black or African American	6,626	5.5%	6,622	5.5%	0.003	0.000
Multi-racial	1,383	1.2%	1,390	1.2%	-0.006	-0.001
Native Hawaiian or Other Pacific Islander	426	0.4%	434	0.4%	-0.007	-0.001
Unknown	33,891	28.2%	33,827	28.2%	0.053	0.001
White	75,481	62.9%	75,491	62.9%	-0.008	-0.000

Table 1ad. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	7,262	6.0%	8,415	7.0%	-0.960	-0.039
No	79,838	66.5%	79,910	66.6%	-0.060	-0.001
Unknown	32,965	27.5%	31,740	26.4%	1.020	0.023
Year*						
2018	9,897	8.2%	10,013	8.3%	-0.097	-0.004
2019	25,158	21.0%	24,959	20.8%	0.166	0.004
2020	22,052	18.4%	21,879	18.2%	0.144	0.004
2021	20,522	17.1%	20,606	17.2%	-0.070	-0.002
2022	19,145	15.9%	19,378	16.1%	-0.194	-0.005
2023	10,285	8.6%	10,341	8.6%	-0.047	-0.002
2024	9,491	7.9%	9,411	7.8%	0.067	0.002
2025	3,515	2.9%	3,478	2.9%	0.031	0.002
Health Characteristics						
Acute Myocardial Infarction*	538	0.4%	538	0.4%	0.000	0.000
Glaucoma*	4,623	3.9%	4,666	3.9%	-0.036	-0.002
Cataract*	8,022	6.7%	8,105	6.8%	-0.069	-0.003
Hip/Pelvic Fracture*	188	0.2%	196	0.2%	-0.007	-0.002
Alzheimer's Disease*	380	0.3%	376	0.3%	0.003	0.001
Atrial Fibrillation*	2,977	2.5%	2,935	2.4%	0.035	0.002
Diabetes*	16,232	13.5%	16,053	13.4%	0.149	0.004
Hyperlipidemia*	34,214	28.5%	34,192	28.5%	0.018	0.000

Table 1ad. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Heart Failure/Non-Ischemic Heart Disease*	3,546	3.0%	3,498	2.9%	0.040	0.002
Hypertension*	37,556	31.3%	37,355	31.1%	0.167	0.004
Ischemic Heart Disease*	6,862	5.7%	6,792	5.7%	0.058	0.003
Rheumatoid Arthritis/Osteoarthritis*	36,586	30.5%	36,488	30.4%	0.082	0.002
Anemia*	12,962	10.8%	12,833	10.7%	0.107	0.003
Asthma*	14,939	12.4%	14,859	12.4%	0.067	0.002
Chronic Kidney Disease*	6,494	5.4%	6,407	5.3%	0.072	0.003
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	9,421	7.8%	9,320	7.8%	0.084	0.003
Osteoporosis*	5,521	4.6%	5,465	4.6%	0.047	0.002
Depression, Bipolar or Other Mood Disorders*	45,973	38.3%	45,820	38.2%	0.127	0.003
Hypothyroidism*	18,262	15.2%	18,230	15.2%	0.027	0.001
Pneumonia*	2,763	2.3%	2,703	2.3%	0.050	0.003
Parkinson's Disease*	738	0.6%	715	0.6%	0.019	0.002
Non-Alzheimer's Dementia*	1,452	1.2%	1,413	1.2%	0.032	0.003
Sleep Disorder*	19,940	16.6%	19,851	16.5%	0.074	0.002
Substance Use Disorder*	18,009	15.0%	17,970	15.0%	0.032	0.001
Anxiety*	43,764	36.5%	43,671	36.4%	0.077	0.002
Behavioral Disorders*	12,011	10.0%	12,001	10.0%	0.008	0.000
Sympathomimetics/Alpha-1 Agonists*	16,305	13.6%	16,223	13.5%	0.068	0.002
Ergot Derivatives and Methysergide*	1,263	1.1%	1,222	1.0%	0.034	0.003
Triptans/Ditans*	56,101	46.7%	56,233	46.8%	-0.110	-0.002

Table 1ad. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Antihypertensives*	31,042	25.9%	30,787	25.6%	0.212	0.005
Major Surgical Procedure*	8,124	6.8%	8,091	6.7%	0.027	0.001
Stroke/Transient Ischemic Attack (TIA)*	5,700	4.7%	5,644	4.7%	0.047	0.002
Benign Prostatic Hyperplasia*	2,056	1.7%	2,067	1.7%	-0.009	-0.001
BMI Overweight/Obese*	21,498	17.9%	21,485	17.9%	0.011	0.000
Other Psychological Disorders*	2,974	2.5%	2,967	2.5%	0.006	0.000
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	28.8	23.7	27.4	23.6	1.437	0.061
Mean number of Non-Proprietarys dispensed	10.6	6.4	10.3	6.5	0.364	0.056
Mean number of unique drug classes dispensed	9.9	5.7	9.6	5.9	0.348	0.060
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.3	12.4	15.2	13.2	-0.941	-0.073
Mean number of emergency room encounters	0.6	1.6	0.6	1.5	0.042	0.027
Mean number of inpatient hospital encounters	0.1	0.3	0.1	0.4	-0.007	-0.021
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.001	-0.012
Mean number of other ambulatory encounters	4.7	13.8	4.9	13.8	-0.229	-0.017

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1ae. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	86,646	100.0%	1,641,343	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.1	13.2	42.9	12.7	5.190	0.401
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	11,311	13.1%	394,596	24.0%	-10.987	-0.286
30-39 years	16,581	19.1%	402,069	24.5%	-5.360	-0.130
40-49 years	20,522	23.7%	333,853	20.3%	3.345	0.081
50-59 years	17,986	20.8%	232,511	14.2%	6.592	0.174
≥ 60 years	20,246	23.4%	278,314	17.0%	6.410	0.160
Sex*						
Female	72,501	83.7%	1,371,376	83.6%	0.123	0.003
Male	14,145	16.3%	269,967	16.4%	-0.123	-0.003
Race*1						
American Indian or Alaska Native	508	0.6%	11,948	0.7%	-0.142	-0.018
Asian	799	0.9%	31,081	1.9%	-0.971	-0.083
Black or African American	6,883	7.9%	139,470	8.5%	-0.553	-0.020
Multi-racial	915	1.1%	23,219	1.4%	-0.359	-0.032
Native Hawaiian or Other Pacific Islander	274	0.3%	6,496	0.4%	-0.080	-0.013
Unknown	24,333	28.1%	615,889	37.5%	-9.440	-0.202
White	52,934	61.1%	813,240	49.5%	11.545	0.234

Table 1ae. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	4,851	5.6%	153,470	9.4%	-3.752	-0.143
No	57,922	66.8%	930,503	56.7%	10.157	0.210
Unknown	23,873	27.6%	557,370	34.0%	-6.406	-0.139
Year*						
2018	5,522	6.4%	204,707	12.5%	-6.099	-0.210
2019	19,405	22.4%	287,204	17.5%	4.898	0.123
2020	17,479	20.2%	270,892	16.5%	3.669	0.095
2021	15,148	17.5%	277,887	16.9%	0.552	0.015
2022	13,778	15.9%	271,487	16.5%	-0.639	-0.017
2023	7,002	8.1%	136,267	8.3%	-0.221	-0.008
2024	6,016	6.9%	138,459	8.4%	-1.493	-0.056
2025	2,296	2.6%	54,440	3.3%	-0.667	-0.039
Health Characteristics						
Acute Myocardial Infarction*	531	0.6%	3,810	0.2%	0.381	0.059
Glaucoma*	3,437	4.0%	40,009	2.4%	1.529	0.087
Cataract*	5,639	6.5%	66,751	4.1%	2.441	0.109
Hip/Pelvic Fracture*	132	0.2%	1,564	0.1%	0.057	0.016
Alzheimer's Disease*	342	0.4%	1,898	0.1%	0.279	0.055
Atrial Fibrillation*	2,692	3.1%	19,360	1.2%	1.927	0.133
Diabetes*	14,563	16.8%	139,474	8.5%	8.310	0.252
Hyperlipidemia*	27,499	31.7%	313,900	19.1%	12.613	0.293
Heart Failure/Non-Ischemic Heart Disease*	3,316	3.8%	22,295	1.4%	2.469	0.156

Table 1ae. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Hypertension*	31,736	36.6%	343,135	20.9%	15.721	0.353
Ischemic Heart Disease*	6,682	7.7%	39,365	2.4%	5.313	0.244
Rheumatoid Arthritis/Osteoarthritis*	25,222	29.1%	245,086	14.9%	14.177	0.347
Anemia*	9,919	11.4%	111,884	6.8%	4.631	0.161
Asthma*	12,006	13.9%	148,420	9.0%	4.814	0.152
Chronic Kidney Disease*	5,365	6.2%	46,142	2.8%	3.381	0.164
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,048	9.3%	76,770	4.7%	4.611	0.182
Osteoporosis*	3,583	4.1%	41,014	2.5%	1.636	0.091
Depression, Bipolar or Other Mood Disorders*	34,245	39.5%	395,822	24.1%	15.407	0.335
Hypothyroidism*	13,386	15.4%	152,907	9.3%	6.133	0.187
Pneumonia*	2,102	2.4%	25,097	1.5%	0.897	0.064
Parkinson's Disease*	553	0.6%	3,156	0.2%	0.446	0.069
Non-Alzheimer's Dementia*	1,183	1.4%	7,337	0.4%	0.918	0.097
Sleep Disorder*	15,305	17.7%	139,118	8.5%	9.188	0.275
Substance Use Disorder*	13,944	16.1%	187,798	11.4%	4.651	0.135
Anxiety*	32,106	37.1%	408,514	24.9%	12.165	0.265
Behavioral Disorders*	7,825	9.0%	118,147	7.2%	1.833	0.067
Sympathomimetics/Alpha-1 Agonists*	10,755	12.4%	140,456	8.6%	3.855	0.126
Ergot Derivatives and Methysergide*	295	0.3%	2,425	0.1%	0.193	0.039
Triptans/Ditans	231	0.3%	128	0.0%	0.259	0.070
Antihypertensives*	24,895	28.7%	290,828	17.7%	11.013	0.263

Table 1ae. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Major Surgical Procedure*	5,671	6.5%	77,962	4.7%	1.795	0.078
Stroke/Transient Ischemic Attack (TIA)*	5,752	6.6%	28,468	1.7%	4.904	0.247
Benign Prostatic Hyperplasia*	1,634	1.9%	15,070	0.9%	0.968	0.082
BMI Overweight/Obese*	18,904	21.8%	233,594	14.2%	7.586	0.198
Other Psychological Disorders*	2,517	2.9%	27,832	1.7%	1.209	0.081
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	27.6	24.0	13.8	16.4	13.764	0.671
Mean number of Non-Proprietarys dispensed	10.2	6.5	6.0	5.2	4.292	0.730
Mean number of unique drug classes dispensed	9.6	5.9	5.6	4.7	3.982	0.749
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.6	8.8	10.7	6.009	0.514
Mean number of emergency room encounters	0.7	1.6	0.5	1.3	0.136	0.091
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.3	0.024	0.069
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	0.002	0.019
Mean number of other ambulatory encounters	5.2	15.1	3.1	10.7	2.057	0.157

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1af. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	86,639	100.0%	86,639	5.3%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.1	13.2	48.1	13.6	0.005	0.000
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	11,311	13.1%	11,963	13.8%	-0.753	-0.022
30-39 years	16,580	19.1%	17,016	19.6%	-0.503	-0.013
40-49 years	20,521	23.7%	19,069	22.0%	1.676	0.040
50-59 years	17,984	20.8%	17,097	19.7%	1.024	0.025
≥ 60 years	20,243	23.4%	21,494	24.8%	-1.444	-0.034
Sex*						
Female	72,496	83.7%	72,834	84.1%	-0.390	-0.011
Male	14,143	16.3%	13,805	15.9%	0.390	0.011
Race*1						
American Indian or Alaska Native	508	0.6%	482	0.6%	0.030	0.004
Asian	799	0.9%	723	0.8%	0.088	0.009
Black or African American	6,881	7.9%	6,675	7.7%	0.238	0.009
Multi-racial	915	1.1%	886	1.0%	0.033	0.003
Native Hawaiian or Other Pacific Islander	274	0.3%	255	0.3%	0.022	0.004
Unknown	24,332	28.1%	23,871	27.6%	0.532	0.012
White	52,930	61.1%	53,747	62.0%	-0.943	-0.019

Table 1af. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	4,851	5.6%	5,314	6.1%	-0.534	-0.023
No	57,917	66.8%	58,163	67.1%	-0.284	-0.006
Unknown	23,871	27.6%	23,162	26.7%	0.818	0.018
Year*						
2018	5,522	6.4%	5,158	6.0%	0.420	0.017
2019	19,403	22.4%	19,546	22.6%	-0.165	-0.004
2020	17,478	20.2%	17,755	20.5%	-0.320	-0.008
2021	15,146	17.5%	15,187	17.5%	-0.047	-0.001
2022	13,777	15.9%	13,937	16.1%	-0.185	-0.005
2023	7,002	8.1%	6,941	8.0%	0.070	0.003
2024	6,015	6.9%	5,904	6.8%	0.128	0.005
2025	2,296	2.7%	2,211	2.6%	0.098	0.006
Health Characteristics						
Acute Myocardial Infarction*	531	0.6%	520	0.6%	0.013	0.002
Glaucoma*	3,435	4.0%	3,419	3.9%	0.018	0.001
Cataract*	5,637	6.5%	5,563	6.4%	0.085	0.003
Hip/Pelvic Fracture*	132	0.2%	130	0.2%	0.002	0.001
Alzheimer's Disease*	341	0.4%	325	0.4%	0.018	0.003
Atrial Fibrillation*	2,689	3.1%	2,504	2.9%	0.214	0.013
Diabetes*	14,558	16.8%	14,299	16.5%	0.299	0.008
Hyperlipidemia*	27,492	31.7%	27,247	31.4%	0.283	0.006
Heart Failure/Non-Ischemic Heart Disease*	3,312	3.8%	3,100	3.6%	0.245	0.013

Table 1af. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Hypertension*	31,729	36.6%	31,437	36.3%	0.337	0.007
Ischemic Heart Disease*	6,676	7.7%	6,157	7.1%	0.599	0.023
Rheumatoid Arthritis/Osteoarthritis*	25,216	29.1%	25,076	28.9%	0.162	0.004
Anemia*	9,914	11.4%	9,851	11.4%	0.073	0.002
Asthma*	12,002	13.9%	11,806	13.6%	0.226	0.007
Chronic Kidney Disease*	5,360	6.2%	5,278	6.1%	0.095	0.004
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,044	9.3%	7,829	9.0%	0.248	0.009
Osteoporosis*	3,580	4.1%	3,545	4.1%	0.040	0.002
Depression, Bipolar or Other Mood Disorders*	34,238	39.5%	34,473	39.8%	-0.271	-0.006
Hypothyroidism*	13,383	15.4%	13,365	15.4%	0.021	0.001
Pneumonia*	2,101	2.4%	2,030	2.3%	0.082	0.005
Parkinson's Disease*	551	0.6%	514	0.6%	0.043	0.005
Non-Alzheimer's Dementia*	1,181	1.4%	1,095	1.3%	0.099	0.009
Sleep Disorder*	15,301	17.7%	15,161	17.5%	0.162	0.004
Substance Use Disorder*	13,942	16.1%	13,920	16.1%	0.025	0.001
Anxiety*	32,099	37.0%	32,416	37.4%	-0.366	-0.008
Behavioral Disorders*	7,823	9.0%	7,904	9.1%	-0.093	-0.003
Sympathomimetics/Alpha-1 Agonists*	10,753	12.4%	10,738	12.4%	0.017	0.001
Ergot Derivatives and Methysergide*	295	0.3%	293	0.3%	0.002	0.000
Triptans/Ditans	231	0.3%	*****	*****	*****	*****
Antihypertensives*	24,889	28.7%	24,877	28.7%	0.014	0.000

Table 1af. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Major Surgical Procedure*	5,667	6.5%	5,594	6.5%	0.084	0.003
Stroke/Transient Ischemic Attack (TIA)*	5,745	6.6%	5,088	5.9%	0.758	0.031
Benign Prostatic Hyperplasia*	1,632	1.9%	1,594	1.8%	0.044	0.003
BMI Overweight/Obese*	18,901	21.8%	18,970	21.9%	-0.080	-0.002
Other Psychological Disorders*	2,517	2.9%	2,492	2.9%	0.029	0.002
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	27.6	24.0	20.9	21.4	6.686	0.294
Mean number of Non-Proprietarys dispensed	10.2	6.5	8.3	6.3	1.943	0.304
Mean number of unique drug classes dispensed	9.6	5.9	7.8	5.6	1.819	0.316
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.6	11.8	12.5	2.983	0.238
Mean number of emergency room encounters	0.7	1.6	0.7	1.8	-0.039	-0.023
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.5	-0.028	-0.067
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.009	-0.059
Mean number of other ambulatory encounters	5.2	15.1	4.4	12.7	0.789	0.057

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Table 1ag. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	220,408	100.0%	123,545	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	47.1	13.2	52.4	12.7	-5.241	-0.405
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	32,155	14.6%	10,897	8.8%	5.769	0.180
30-39 years	45,115	20.5%	20,905	16.9%	3.548	0.091
40-49 years	52,594	23.9%	25,495	20.6%	3.226	0.078
50-59 years	42,412	19.2%	23,188	18.8%	0.474	0.012
≥ 60 years	48,132	21.8%	43,060	34.9%	-13.016	-0.292
Sex*						
Female	189,804	86.1%	107,088	86.7%	-0.565	-0.016
Male	30,604	13.9%	16,457	13.3%	0.565	0.016
Race*1						
American Indian or Alaska Native	767	0.3%	822	0.7%	-0.317	-0.045
Asian	3,195	1.4%	1,778	1.4%	0.010	0.001
Black or African American	16,284	7.4%	6,360	5.1%	2.240	0.093
Multi-racial	4,559	2.1%	1,297	1.0%	1.019	0.082
Native Hawaiian or Other Pacific Islander	723	0.3%	433	0.4%	-0.022	-0.004
Unknown	73,915	33.5%	31,793	25.7%	7.802	0.171
White	120,965	54.9%	81,062	65.6%	-10.731	-0.221

Table 1ag. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	12,670	5.7%	8,126	6.6%	-0.829	-0.034
No	122,809	55.7%	85,407	69.1%	-13.411	-0.280
Unknown	84,929	38.5%	30,012	24.3%	14.240	0.310
Year*						
2020	16,969	7.7%	31,350	25.4%	-17.676	-0.490
2021	36,919	16.8%	28,522	23.1%	-6.336	-0.159
2022	55,405	25.1%	26,164	21.2%	3.960	0.094
2023	40,707	18.5%	15,756	12.8%	5.716	0.158
2024	49,622	22.5%	16,156	13.1%	9.437	0.249
2025	20,786	9.4%	5,597	4.5%	4.900	0.193
Health Characteristics						
Acute Myocardial Infarction*	1,585	0.7%	809	0.7%	0.064	0.008
Glaucoma*	8,663	3.9%	6,108	4.9%	-1.014	-0.049
Cataract*	13,455	6.1%	10,775	8.7%	-2.617	-0.100
Hip/Pelvic Fracture*	302	0.1%	314	0.3%	-0.117	-0.027
Alzheimer's Disease*	663	0.3%	710	0.6%	-0.274	-0.041
Atrial Fibrillation*	6,364	2.9%	4,397	3.6%	-0.672	-0.038
Diabetes*	30,675	13.9%	19,567	15.8%	-1.921	-0.054
Hyperlipidemia*	71,425	32.4%	43,071	34.9%	-2.457	-0.052
Heart Failure/Non-Ischemic Heart Disease*	7,540	3.4%	5,328	4.3%	-0.892	-0.046
Hypertension*	72,611	32.9%	45,089	36.5%	-3.552	-0.075
Ischemic Heart Disease*	14,529	6.6%	10,437	8.4%	-1.856	-0.070

Table 1ag. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	55,324	25.1%	46,292	37.5%	-12.369	-0.269
Anemia*	27,210	12.3%	17,642	14.3%	-1.935	-0.057
Asthma*	28,160	12.8%	16,564	13.4%	-0.631	-0.019
Chronic Kidney Disease*	12,682	5.8%	8,913	7.2%	-1.461	-0.059
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	16,345	7.4%	10,888	8.8%	-1.397	-0.051
Osteoporosis*	9,638	4.4%	9,167	7.4%	-3.047	-0.130
Depression, Bipolar or Other Mood Disorders*	75,049	34.1%	49,347	39.9%	-5.892	-0.122
Hypothyroidism*	32,210	14.6%	22,257	18.0%	-3.401	-0.092
Pneumonia*	4,999	2.3%	4,364	3.5%	-1.264	-0.075
Parkinson's Disease*	1,192	0.5%	1,416	1.1%	-0.605	-0.066
Non-Alzheimer's Dementia*	2,575	1.2%	2,568	2.1%	-0.910	-0.072
Sleep Disorder*	35,960	16.3%	23,042	18.7%	-2.335	-0.062
Substance Use Disorder*	28,037	12.7%	18,397	14.9%	-2.170	-0.063
Anxiety*	83,965	38.1%	47,757	38.7%	-0.560	-0.012
Behavioral Disorders*	23,085	10.5%	13,073	10.6%	-0.108	-0.004
Sympathomimetics/Alpha-1 Agonists*	27,949	12.7%	17,101	13.8%	-1.161	-0.034
Ergot Derivatives and Methysergide*	1,270	0.6%	905	0.7%	-0.156	-0.019
Triptans/Ditans*	106,527	48.3%	49,186	39.8%	8.520	0.172
Antihypertensives*	56,421	25.6%	35,749	28.9%	-3.338	-0.075
Major Surgical Procedure*	13,260	6.0%	10,370	8.4%	-2.378	-0.092
Stroke/Transient Ischemic Attack (TIA)*	14,979	6.8%	6,679	5.4%	1.390	0.058

Table 1ag. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	3,578	1.6%	3,420	2.8%	-1.145	-0.078
BMI Overweight/Obese*	52,413	23.8%	23,184	18.8%	5.014	0.123
Other Psychological Disorders*	4,401	2.0%	2,823	2.3%	-0.288	-0.020
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	23.7	21.4	28.1	24.3	-4.383	-0.191
Mean number of Non-Proprietarys dispensed	9.7	6.3	10.7	6.7	-0.974	-0.150
Mean number of unique drug classes dispensed	9.0	5.6	10.0	6.0	-0.925	-0.158
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	13.4	11.8	16.3	13.7	-2.912	-0.228
Mean number of emergency room encounters	0.6	1.4	0.5	1.4	0.039	0.027
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.4	-0.017	-0.043
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.006	-0.044
Mean number of other ambulatory encounters	4.1	10.6	5.5	13.8	-1.452	-0.118

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1ah. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	99,525	45.2%	99,525	80.6%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	51.0	12.9	51.0	12.8	-0.005	-0.000
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	10,093	10.1%	9,850	9.9%	0.244	0.008
30-39 years	16,978	17.1%	18,065	18.2%	-1.092	-0.029
40-49 years	21,773	21.9%	21,404	21.5%	0.371	0.009
50-59 years	19,830	19.9%	18,830	18.9%	1.005	0.025
≥ 60 years	30,851	31.0%	31,376	31.5%	-0.528	-0.011
Sex*						
Female	86,371	86.8%	86,448	86.9%	-0.077	-0.002
Male	13,154	13.2%	13,077	13.1%	0.077	0.002
Race*1						
American Indian or Alaska Native	550	0.6%	542	0.5%	0.008	0.001
Asian	1,416	1.4%	1,444	1.5%	-0.028	-0.002
Black or African American	5,597	5.6%	5,633	5.7%	-0.036	-0.002
Multi-racial	1,283	1.3%	1,236	1.2%	0.047	0.004
Native Hawaiian or Other Pacific Islander	379	0.4%	373	0.4%	0.006	0.001
Unknown	27,218	27.3%	27,206	27.3%	0.012	0.000
White	63,082	63.4%	63,091	63.4%	-0.009	-0.000

Table 1ah. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	5,869	5.9%	6,636	6.7%	-0.771	-0.032
No	65,838	66.2%	65,996	66.3%	-0.159	-0.003
Unknown	27,818	28.0%	26,893	27.0%	0.929	0.021
Year*						
2020	14,476	14.5%	14,749	14.8%	-0.274	-0.008
2021	24,541	24.7%	24,315	24.4%	0.227	0.005
2022	24,915	25.0%	24,726	24.8%	0.190	0.004
2023	15,102	15.2%	15,043	15.1%	0.059	0.002
2024	15,158	15.2%	15,272	15.3%	-0.115	-0.003
2025	5,333	5.4%	5,420	5.4%	-0.087	-0.004
Health Characteristics						
Acute Myocardial Infarction*	677	0.7%	687	0.7%	-0.010	-0.001
Glaucoma*	4,790	4.8%	4,784	4.8%	0.006	0.000
Cataract*	8,144	8.2%	8,281	8.3%	-0.138	-0.005
Hip/Pelvic Fracture*	195	0.2%	202	0.2%	-0.007	-0.002
Alzheimer's Disease*	462	0.5%	465	0.5%	-0.003	-0.000
Atrial Fibrillation*	3,473	3.5%	3,504	3.5%	-0.031	-0.002
Diabetes*	15,292	15.4%	15,285	15.4%	0.007	0.000
Hyperlipidemia*	33,962	34.1%	34,145	34.3%	-0.184	-0.004
Heart Failure/Non-Ischemic Heart Disease*	4,070	4.1%	4,117	4.1%	-0.047	-0.002
Hypertension*	35,307	35.5%	35,441	35.6%	-0.135	-0.003
Ischemic Heart Disease*	7,872	7.9%	7,904	7.9%	-0.032	-0.001

Table 1ah. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	34,151	34.3%	34,059	34.2%	0.092	0.002
Anemia*	13,567	13.6%	13,650	13.7%	-0.083	-0.002
Asthma*	13,379	13.4%	13,361	13.4%	0.018	0.001
Chronic Kidney Disease*	6,925	7.0%	6,955	7.0%	-0.030	-0.001
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	8,529	8.6%	8,514	8.6%	0.015	0.001
Osteoporosis*	6,515	6.5%	6,473	6.5%	0.042	0.002
Depression, Bipolar or Other Mood Disorders*	38,497	38.7%	38,623	38.8%	-0.127	-0.003
Hypothyroidism*	17,171	17.3%	17,119	17.2%	0.052	0.001
Pneumonia*	2,925	2.9%	2,945	3.0%	-0.020	-0.001
Parkinson's Disease*	915	0.9%	900	0.9%	0.015	0.002
Non-Alzheimer's Dementia*	1,761	1.8%	1,757	1.8%	0.004	0.000
Sleep Disorder*	17,990	18.1%	18,028	18.1%	-0.038	-0.001
Substance Use Disorder*	14,489	14.6%	14,553	14.6%	-0.064	-0.002
Anxiety*	38,739	38.9%	38,560	38.7%	0.180	0.004
Behavioral Disorders*	10,713	10.8%	10,662	10.7%	0.051	0.002
Sympathomimetics/Alpha-1 Agonists*	13,712	13.8%	13,698	13.8%	0.014	0.000
Ergot Derivatives and Methysergide*	722	0.7%	727	0.7%	-0.005	-0.001
Triptans/Ditans*	41,382	41.6%	41,667	41.9%	-0.286	-0.006
Antihypertensives*	28,094	28.2%	28,109	28.2%	-0.015	-0.000
Major Surgical Procedure*	7,713	7.7%	7,721	7.8%	-0.008	-0.000
Stroke/Transient Ischemic Attack (TIA)*	5,881	5.9%	5,852	5.9%	0.029	0.001

Table 1ah. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	2,372	2.4%	2,334	2.3%	0.038	0.003
BMI Overweight/Obese*	19,360	19.5%	19,576	19.7%	-0.217	-0.005
Other Psychological Disorders*	2,286	2.3%	2,282	2.3%	0.004	0.000
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	27.4	23.7	27.1	23.8	0.352	0.015
Mean number of Non-Proprietarys dispensed	10.7	6.6	10.4	6.7	0.225	0.034
Mean number of unique drug classes dispensed	9.9	5.9	9.7	6.0	0.188	0.032
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.6	16.0	13.6	-1.217	-0.093
Mean number of emergency room encounters	0.6	1.5	0.5	1.4	0.059	0.041
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.4	-0.003	-0.007
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.001	-0.009
Mean number of other ambulatory encounters	4.9	12.2	5.4	13.6	-0.502	-0.039

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1ai. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	121,481	100.0%	1,322,232	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	49.4	13.4	44.0	12.8	5.424	0.414
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	14,306	11.8%	297,918	22.5%	-10.755	-0.288
30-39 years	22,104	18.2%	311,173	23.5%	-5.338	-0.132
40-49 years	27,584	22.7%	265,554	20.1%	2.623	0.064
50-59 years	24,871	20.5%	190,846	14.4%	6.040	0.160
≥ 60 years	32,616	26.8%	256,741	19.4%	7.431	0.177
Sex*						
Female	103,804	85.4%	1,110,699	84.0%	1.447	0.040
Male	17,677	14.6%	211,533	16.0%	-1.447	-0.040
Race*1						
American Indian or Alaska Native	471	0.4%	8,863	0.7%	-0.283	-0.039
Asian	1,671	1.4%	24,567	1.9%	-0.482	-0.038
Black or African American	9,927	8.2%	111,228	8.4%	-0.240	-0.009
Multi-racial	2,229	1.8%	20,020	1.5%	0.321	0.025
Native Hawaiian or Other Pacific Islander	350	0.3%	5,448	0.4%	-0.124	-0.021
Unknown	38,181	31.4%	478,657	36.2%	-4.771	-0.101
White	68,652	56.5%	673,449	50.9%	5.580	0.112

Table 1ai. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	7,115	5.9%	117,576	8.9%	-3.035	-0.116
No	71,225	58.6%	757,582	57.3%	1.335	0.027
Unknown	43,141	35.5%	447,074	33.8%	1.700	0.036
Year*						
2020	9,991	8.2%	329,431	24.9%	-16.690	-0.461
2021	20,455	16.8%	322,589	24.4%	-7.559	-0.188
2022	29,914	24.6%	303,452	22.9%	1.674	0.039
2023	22,983	18.9%	153,190	11.6%	7.333	0.205
2024	26,965	22.2%	153,498	11.6%	10.588	0.285
2025	11,173	9.2%	60,072	4.5%	4.654	0.185
Health Characteristics						
Acute Myocardial Infarction*	1,155	1.0%	3,724	0.3%	0.669	0.086
Glaucoma*	5,795	4.8%	35,597	2.7%	2.078	0.110
Cataract*	9,123	7.5%	60,626	4.6%	2.925	0.123
Hip/Pelvic Fracture*	203	0.2%	1,476	0.1%	0.055	0.015
Alzheimer's Disease*	500	0.4%	1,821	0.1%	0.274	0.052
Atrial Fibrillation*	4,969	4.1%	18,587	1.4%	2.685	0.165
Diabetes*	21,261	17.5%	121,583	9.2%	8.306	0.246
Hyperlipidemia*	45,903	37.8%	284,278	21.5%	16.286	0.362
Heart Failure/Non-Ischemic Heart Disease*	6,034	5.0%	21,860	1.7%	3.314	0.186
Hypertension*	48,247	39.7%	297,101	22.5%	17.246	0.379
Ischemic Heart Disease*	11,645	9.6%	37,294	2.8%	6.765	0.283

Table 1ai. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	36,353	29.9%	218,102	16.5%	13.430	0.322
Anemia*	17,458	14.4%	103,000	7.8%	6.581	0.211
Asthma*	17,402	14.3%	126,940	9.6%	4.724	0.146
Chronic Kidney Disease*	9,146	7.5%	45,130	3.4%	4.116	0.182
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	11,014	9.1%	65,312	4.9%	4.127	0.162
Osteoporosis*	6,550	5.4%	41,190	3.1%	2.277	0.113
Depression, Bipolar or Other Mood Disorders*	44,879	36.9%	335,835	25.4%	11.544	0.251
Hypothyroidism*	20,086	16.5%	134,401	10.2%	6.370	0.188
Pneumonia*	3,223	2.7%	22,953	1.7%	0.917	0.063
Parkinson's Disease*	900	0.7%	3,158	0.2%	0.502	0.072
Non-Alzheimer's Dementia*	2,033	1.7%	7,047	0.5%	1.141	0.109
Sleep Disorder*	21,803	17.9%	124,199	9.4%	8.555	0.251
Substance Use Disorder*	17,371	14.3%	148,166	11.2%	3.094	0.093
Anxiety*	48,270	39.7%	355,698	26.9%	12.833	0.275
Behavioral Disorders*	12,989	10.7%	101,174	7.7%	3.040	0.105
Sympathomimetics/Alpha-1 Agonists*	16,368	13.5%	118,464	9.0%	4.514	0.143
Ergot Derivatives and Methysergide*	335	0.3%	1,909	0.1%	0.131	0.029
Triptans/Ditans	339	0.3%	176	0.0%	0.266	0.070
Antihypertensives*	36,243	29.8%	248,998	18.8%	11.003	0.259
Major Surgical Procedure*	8,672	7.1%	68,768	5.2%	1.938	0.081
Stroke/Transient Ischemic Attack (TIA)*	11,584	9.5%	24,121	1.8%	7.711	0.338

Table 1ai. Aggregated Unadjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	2,540	2.1%	13,973	1.1%	1.034	0.083
BMI Overweight/Obese*	30,787	25.3%	204,213	15.4%	9.898	0.248
Other Psychological Disorders*	2,826	2.3%	21,279	1.6%	0.717	0.052
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	24.5	22.2	14.4	16.8	10.119	0.513
Mean number of Non-Proprietarys dispensed	9.9	6.5	6.2	5.4	3.613	0.607
Mean number of unique drug classes dispensed	9.2	5.8	5.9	4.9	3.342	0.620
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.5	9.2	11.0	5.594	0.476
Mean number of emergency room encounters	0.6	1.5	0.5	1.3	0.114	0.082
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.3	0.038	0.101
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	0.004	0.031
Mean number of other ambulatory encounters	4.6	11.7	3.4	11.0	1.195	0.105

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1aj. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	121,262	99.8%	121,262	9.2%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	49.4	13.4	49.4	13.9	0.048	0.004
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	14,304	11.8%	16,233	13.4%	-1.591	-0.048
30-39 years	22,100	18.2%	21,848	18.0%	0.208	0.005
40-49 years	27,558	22.7%	24,949	20.6%	2.152	0.052
50-59 years	24,811	20.5%	23,265	19.2%	1.275	0.032
≥ 60 years	32,489	26.8%	34,967	28.8%	-2.044	-0.046
Sex*						
Female	103,632	85.5%	104,246	86.0%	-0.506	-0.014
Male	17,630	14.5%	17,016	14.0%	0.506	0.014
Race*1						
American Indian or Alaska Native	470	0.4%	435	0.4%	0.029	0.005
Asian	1,670	1.4%	1,617	1.3%	0.044	0.004
Black or African American	9,894	8.2%	9,820	8.1%	0.061	0.002
Multi-racial	2,228	1.8%	2,247	1.9%	-0.016	-0.001
Native Hawaiian or Other Pacific Islander	350	0.3%	352	0.3%	-0.002	-0.000
Unknown	38,129	31.4%	38,139	31.5%	-0.008	-0.000
White	68,521	56.5%	68,652	56.6%	-0.108	-0.002

Table 1aj. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	7,108	5.9%	7,749	6.4%	-0.529	-0.022
No	71,065	58.6%	70,979	58.5%	0.071	0.001
Unknown	43,089	35.5%	42,534	35.1%	0.458	0.010
Year*						
2020	9,991	8.2%	9,425	7.8%	0.467	0.017
2021	20,448	16.9%	20,156	16.6%	0.241	0.006
2022	29,888	24.6%	29,890	24.6%	-0.002	-0.000
2023	22,937	18.9%	23,200	19.1%	-0.217	-0.006
2024	26,866	22.2%	27,181	22.4%	-0.260	-0.006
2025	11,132	9.2%	11,410	9.4%	-0.229	-0.008
Health Characteristics						
Acute Myocardial Infarction*	1,138	0.9%	1,088	0.9%	0.041	0.004
Glaucoma*	5,771	4.8%	5,737	4.7%	0.028	0.001
Cataract*	9,077	7.5%	8,918	7.4%	0.131	0.005
Hip/Pelvic Fracture*	202	0.2%	190	0.2%	0.010	0.002
Alzheimer's Disease*	490	0.4%	478	0.4%	0.010	0.002
Atrial Fibrillation*	4,880	4.0%	4,766	3.9%	0.094	0.005
Diabetes*	21,137	17.4%	21,085	17.4%	0.043	0.001
Hyperlipidemia*	45,701	37.7%	45,436	37.5%	0.219	0.005
Heart Failure/Non-Ischemic Heart Disease*	5,943	4.9%	5,747	4.7%	0.162	0.008
Hypertension*	48,038	39.6%	48,204	39.8%	-0.137	-0.003
Ischemic Heart Disease*	11,496	9.5%	11,144	9.2%	0.290	0.010

Table 1aj. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Rheumatoid Arthritis/Osteoarthritis*	36,194	29.8%	36,406	30.0%	-0.175	-0.004
Anemia*	17,360	14.3%	17,448	14.4%	-0.073	-0.002
Asthma*	17,338	14.3%	17,587	14.5%	-0.205	-0.006
Chronic Kidney Disease*	9,066	7.5%	8,987	7.4%	0.065	0.002
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	10,934	9.0%	10,931	9.0%	0.002	0.000
Osteoporosis*	6,533	5.4%	6,507	5.4%	0.021	0.001
Depression, Bipolar or Other Mood Disorders*	44,726	36.9%	45,339	37.4%	-0.506	-0.010
Hypothyroidism*	20,023	16.5%	20,007	16.5%	0.013	0.000
Pneumonia*	3,207	2.6%	3,319	2.7%	-0.092	-0.006
Parkinson's Disease*	889	0.7%	816	0.7%	0.060	0.007
Non-Alzheimer's Dementia*	1,996	1.6%	1,938	1.6%	0.048	0.004
Sleep Disorder*	21,683	17.9%	21,789	18.0%	-0.087	-0.002
Substance Use Disorder*	17,311	14.3%	17,232	14.2%	0.065	0.002
Anxiety*	48,116	39.7%	48,919	40.3%	-0.662	-0.014
Behavioral Disorders*	12,955	10.7%	13,203	10.9%	-0.205	-0.007
Sympathomimetics/Alpha-1 Agonists*	16,321	13.5%	16,433	13.6%	-0.092	-0.003
Ergot Derivatives and Methysergide*	334	0.3%	340	0.3%	-0.005	-0.001
Triptans/Ditans	338	0.3%	22	0.0%	0.261	0.068
Antihypertensives*	36,098	29.8%	36,164	29.8%	-0.054	-0.001
Major Surgical Procedure*	8,635	7.1%	8,502	7.0%	0.110	0.004
Stroke/Transient Ischemic Attack (TIA)*	11,373	9.4%	10,082	8.3%	1.065	0.037

Table 1aj. Aggregated Adjusted Characteristics of Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	2,521	2.1%	2,426	2.0%	0.078	0.006
BMI Overweight/Obese*	30,665	25.3%	31,050	25.6%	-0.317	-0.007
Other Psychological Disorders*	2,813	2.3%	2,827	2.3%	-0.012	-0.001
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	24.5	22.2	20.0	20.7	4.410	0.205
Mean number of Non-Proprietarys dispensed	9.8	6.5	8.4	6.3	1.460	0.228
Mean number of unique drug classes dispensed	9.2	5.8	7.8	5.7	1.369	0.237
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.8	12.5	12.2	12.5	2.642	0.212
Mean number of emergency room encounters	0.6	1.5	0.7	1.7	-0.036	-0.023
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.5	-0.025	-0.056
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.011	-0.059
Mean number of other ambulatory encounters	4.6	11.7	4.4	12.0	0.158	0.013

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1ak. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	226,925	100.0%	167,172	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	46.1	12.7	51.4	12.8	-5.330	-0.419
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	33,419	14.7%	15,372	9.2%	5.532	0.171
30-39 years	49,047	21.6%	29,864	17.9%	3.750	0.094
40-49 years	57,603	25.4%	36,532	21.9%	3.531	0.083
50-59 years	44,930	19.8%	32,126	19.2%	0.582	0.015
≥ 60 years	41,926	18.5%	53,278	31.9%	-13.394	-0.312
Sex*						
Female	195,493	86.1%	144,654	86.5%	-0.381	-0.011
Male	31,432	13.9%	22,518	13.5%	0.381	0.011
Race*1						
American Indian or Alaska Native	1,140	0.5%	1,222	0.7%	-0.229	-0.029
Asian	2,042	0.9%	2,291	1.4%	-0.471	-0.044
Black or African American	15,949	7.0%	8,750	5.2%	1.794	0.075
Multi-racial	2,799	1.2%	1,627	1.0%	0.260	0.025
Native Hawaiian or Other Pacific Islander	725	0.3%	570	0.3%	-0.021	-0.004
Unknown	70,438	31.0%	43,834	26.2%	4.819	0.107
White	133,832	59.0%	108,878	65.1%	-6.153	-0.127

Table 1ak. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	12,364	5.4%	10,859	6.5%	-1.047	-0.044
No	143,031	63.0%	115,445	69.1%	-6.028	-0.128
Unknown	71,530	31.5%	40,868	24.4%	7.075	0.158
Year*						
2018	12,418	5.5%	25,231	15.1%	-9.621	-0.321
2019	49,360	21.8%	31,138	18.6%	3.125	0.078
2020	46,530	20.5%	25,962	15.5%	4.974	0.130
2021	41,792	18.4%	25,015	15.0%	3.453	0.093
2022	38,201	16.8%	23,949	14.3%	2.508	0.069
2023	17,543	7.7%	14,839	8.9%	-1.146	-0.042
2024	15,233	6.7%	15,518	9.3%	-2.570	-0.095
2025	5,848	2.6%	5,520	3.3%	-0.725	-0.043
Health Characteristics						
Acute Myocardial Infarction*	939	0.4%	1,031	0.6%	-0.203	-0.028
Glaucoma*	7,660	3.4%	7,975	4.8%	-1.395	-0.071
Cataract*	12,075	5.3%	14,037	8.4%	-3.076	-0.122
Hip/Pelvic Fracture*	299	0.1%	376	0.2%	-0.093	-0.022
Alzheimer's Disease*	496	0.2%	859	0.5%	-0.295	-0.049
Atrial Fibrillation*	4,578	2.0%	5,529	3.3%	-1.290	-0.080
Diabetes*	29,965	13.2%	25,614	15.3%	-2.117	-0.061
Hyperlipidemia*	61,985	27.3%	55,291	33.1%	-5.759	-0.126
Heart Failure/Non-Ischemic Heart Disease*	5,960	2.6%	6,700	4.0%	-1.381	-0.077
Hypertension*	68,808	30.3%	59,883	35.8%	-5.499	-0.117

Table 1ak. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Ischemic Heart Disease*	10,916	4.8%	13,179	7.9%	-3.073	-0.126
Rheumatoid Arthritis/Osteoarthritis*	58,629	25.8%	61,157	36.6%	-10.747	-0.234
Anemia*	24,685	10.9%	23,104	13.8%	-2.942	-0.090
Asthma*	30,640	13.5%	22,788	13.6%	-0.129	-0.004
Chronic Kidney Disease*	11,260	5.0%	11,131	6.7%	-1.696	-0.073
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	17,663	7.8%	15,140	9.1%	-1.273	-0.046
Osteoporosis*	8,305	3.7%	11,443	6.8%	-3.185	-0.143
Depression, Bipolar or Other Mood Disorders*	86,389	38.1%	67,539	40.4%	-2.331	-0.048
Hypothyroidism*	32,759	14.4%	29,443	17.6%	-3.176	-0.087
Pneumonia*	5,112	2.3%	5,640	3.4%	-1.121	-0.068
Parkinson's Disease*	1,040	0.5%	1,807	1.1%	-0.623	-0.071
Non-Alzheimer's Dementia*	2,001	0.9%	3,174	1.9%	-1.017	-0.087
Sleep Disorder*	38,717	17.1%	31,160	18.6%	-1.578	-0.041
Substance Use Disorder*	33,375	14.7%	26,506	15.9%	-1.148	-0.032
Anxiety*	84,640	37.3%	63,944	38.3%	-0.952	-0.020
Behavioral Disorders*	21,175	9.3%	16,918	10.1%	-0.789	-0.027
Sympathomimetics/Alpha-1 Agonists*	28,805	12.7%	22,821	13.7%	-0.958	-0.028
Ergot Derivatives and Methysergide*	2,569	1.1%	1,680	1.0%	0.127	0.012
Triptans/Ditans*	132,467	58.4%	70,096	41.9%	16.444	0.333
Antihypertensives*	55,298	24.4%	47,262	28.3%	-3.903	-0.089
Major Surgical Procedure*	14,006	6.2%	14,027	8.4%	-2.219	-0.085
Stroke/Transient Ischemic Attack (TIA)*	9,555	4.2%	9,202	5.5%	-1.294	-0.060

Table 1ak. Aggregated Unadjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	3,044	1.3%	4,172	2.5%	-1.154	-0.084
BMI Overweight/Obese*	48,032	21.2%	31,066	18.6%	2.583	0.065
Other Psychological Disorders*	5,841	2.6%	4,026	2.4%	0.166	0.011
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	28.9	24.1	29.5	25.0	-0.654	-0.027
Mean number of Non-Proprietarys dispensed	10.8	6.6	11.0	6.8	-0.180	-0.027
Mean number of unique drug classes dispensed	10.1	5.9	10.2	6.1	-0.159	-0.026
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	14.2	12.4	16.6	13.8	-2.442	-0.186
Mean number of emergency room encounters	0.7	1.6	0.6	1.6	0.039	0.024
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.4	-0.030	-0.077
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.008	-0.058
Mean number of other ambulatory encounters	4.6	13.4	5.4	14.1	-0.727	-0.053

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1al. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	136,148	60.0%	136,148	81.4%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	49.2	12.6	49.2	12.7	-0.016	-0.001
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	14,800	10.9%	14,199	10.4%	0.441	0.014
30-39 years	25,148	18.5%	27,056	19.9%	-1.401	-0.036
40-49 years	32,618	24.0%	32,475	23.9%	0.105	0.002
50-59 years	28,874	21.2%	27,432	20.1%	1.059	0.026
≥ 60 years	34,708	25.5%	34,986	25.7%	-0.204	-0.005
Sex*						
Female	118,265	86.9%	118,263	86.9%	0.001	0.000
Male	17,883	13.1%	17,885	13.1%	-0.001	-0.000
Race*1						
American Indian or Alaska Native	928	0.7%	932	0.7%	-0.003	-0.000
Asian	1,560	1.1%	1,530	1.1%	0.022	0.002
Black or African American	7,731	5.7%	7,782	5.7%	-0.037	-0.002
Multi-racial	1,509	1.1%	1,535	1.1%	-0.019	-0.002
Native Hawaiian or Other Pacific Islander	487	0.4%	490	0.4%	-0.002	-0.000
Unknown	37,435	27.5%	37,502	27.5%	-0.049	-0.001
White	86,498	63.5%	86,377	63.4%	0.089	0.002

Table 1al. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	8,083	5.9%	9,222	6.8%	-0.837	-0.034
No	91,195	67.0%	91,137	66.9%	0.043	0.001
Unknown	36,870	27.1%	35,789	26.3%	0.794	0.018
Year*						
2018	11,493	8.4%	11,689	8.6%	-0.144	-0.005
2019	28,842	21.2%	28,558	21.0%	0.209	0.005
2020	24,549	18.0%	24,538	18.0%	0.008	0.000
2021	22,977	16.9%	23,096	17.0%	-0.087	-0.002
2022	21,368	15.7%	21,410	15.7%	-0.031	-0.001
2023	11,894	8.7%	11,885	8.7%	0.007	0.000
2024	10,919	8.0%	10,869	8.0%	0.037	0.001
2025	4,106	3.0%	4,103	3.0%	0.002	0.000
Health Characteristics						
Acute Myocardial Infarction*	742	0.5%	727	0.5%	0.011	0.002
Glaucoma*	5,620	4.1%	5,618	4.1%	0.001	0.000
Cataract*	9,597	7.0%	9,644	7.1%	-0.035	-0.001
Hip/Pelvic Fracture*	241	0.2%	236	0.2%	0.004	0.001
Alzheimer's Disease*	437	0.3%	435	0.3%	0.001	0.000
Atrial Fibrillation*	3,596	2.6%	3,585	2.6%	0.008	0.001
Diabetes*	19,425	14.3%	19,314	14.2%	0.082	0.002
Hyperlipidemia*	41,266	30.3%	41,145	30.2%	0.089	0.002
Heart Failure/Non-Ischemic Heart Disease*	4,530	3.3%	4,474	3.3%	0.041	0.002
Hypertension*	44,702	32.8%	44,674	32.8%	0.021	0.000

Table 1al. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Ischemic Heart Disease*	8,586	6.3%	8,524	6.3%	0.046	0.002
Rheumatoid Arthritis/Osteoarthritis*	44,099	32.4%	44,011	32.3%	0.065	0.001
Anemia*	16,829	12.4%	16,735	12.3%	0.069	0.002
Asthma*	18,627	13.7%	18,550	13.6%	0.057	0.002
Chronic Kidney Disease*	8,253	6.1%	8,171	6.0%	0.060	0.003
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	11,701	8.6%	11,566	8.5%	0.099	0.004
Osteoporosis*	7,028	5.2%	7,092	5.2%	-0.047	-0.002
Depression, Bipolar or Other Mood Disorders*	54,704	40.2%	54,381	39.9%	0.237	0.005
Hypothyroidism*	22,230	16.3%	22,148	16.3%	0.060	0.002
Pneumonia*	3,587	2.6%	3,523	2.6%	0.047	0.003
Parkinson's Disease*	951	0.7%	885	0.7%	0.048	0.006
Non-Alzheimer's Dementia*	1,743	1.3%	1,689	1.2%	0.040	0.004
Sleep Disorder*	24,527	18.0%	24,402	17.9%	0.092	0.002
Substance Use Disorder*	21,685	15.9%	21,532	15.8%	0.112	0.003
Anxiety*	52,280	38.4%	52,083	38.3%	0.145	0.003
Behavioral Disorders*	13,797	10.1%	13,740	10.1%	0.042	0.001
Sympathomimetics/Alpha-1 Agonists*	18,845	13.8%	18,816	13.8%	0.021	0.001
Ergot Derivatives and Methysergide*	1,533	1.1%	1,437	1.1%	0.071	0.007
Triptans/Ditans*	63,646	46.7%	63,640	46.7%	0.004	0.000
Antihypertensives*	35,949	26.4%	35,850	26.3%	0.073	0.002
Major Surgical Procedure*	10,357	7.6%	10,177	7.5%	0.132	0.005
Stroke/Transient Ischemic Attack (TIA)*	6,787	5.0%	6,761	5.0%	0.019	0.001

Table 1al. Aggregated Adjusted Characteristics of mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	2,464	1.8%	2,404	1.8%	0.044	0.003
BMI Overweight/Obese*	26,293	19.3%	26,121	19.2%	0.126	0.003
Other Psychological Disorders*	3,468	2.5%	3,418	2.5%	0.037	0.002
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	30.3	24.8	28.9	24.6	1.453	0.059
Mean number of Non-Proprietarys dispensed	11.2	6.7	10.8	6.8	0.376	0.055
Mean number of unique drug classes dispensed	10.5	6.0	10.1	6.1	0.362	0.060
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	15.1	12.9	16.1	13.7	-1.002	-0.075
Mean number of emergency room encounters	0.7	1.7	0.6	1.6	0.039	0.024
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.4	-0.012	-0.031
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	-0.002	-0.015
Mean number of other ambulatory encounters	4.9	14.0	5.3	14.2	-0.333	-0.024

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1am. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	97,934	100.0%	1,751,563	100.0%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.6	13.2	43.3	12.8	5.238	0.404
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	12,159	12.4%	410,252	23.4%	-11.007	-0.290
30-39 years	18,237	18.6%	422,110	24.1%	-5.477	-0.134
40-49 years	23,100	23.6%	355,991	20.3%	3.263	0.079
50-59 years	20,671	21.1%	251,950	14.4%	6.723	0.177
≥ 60 years	23,767	24.3%	311,260	17.8%	6.498	0.160
Sex*						
Female	82,798	84.5%	1,471,218	84.0%	0.550	0.015
Male	15,136	15.5%	280,345	16.0%	-0.550	-0.015
Race*1						
American Indian or Alaska Native	563	0.6%	12,537	0.7%	-0.141	-0.018
Asian	864	0.9%	32,516	1.9%	-0.974	-0.084
Black or African American	8,015	8.2%	149,289	8.5%	-0.339	-0.012
Multi-racial	1,019	1.0%	24,360	1.4%	-0.350	-0.032
Native Hawaiian or Other Pacific Islander	292	0.3%	6,757	0.4%	-0.088	-0.015
Unknown	26,840	27.4%	648,244	37.0%	-9.603	-0.207
White	60,341	61.6%	877,860	50.1%	11.495	0.233

Table 1am. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	5,351	5.5%	161,495	9.2%	-3.756	-0.144
No	65,942	67.3%	1,000,418	57.1%	10.217	0.212
Unknown	26,641	27.2%	589,650	33.7%	-6.461	-0.141
Year*						
2018	6,441	6.6%	220,796	12.6%	-6.029	-0.206
2019	22,176	22.6%	307,894	17.6%	5.066	0.127
2020	19,594	20.0%	287,282	16.4%	3.606	0.094
2021	16,922	17.3%	293,806	16.8%	0.505	0.013
2022	15,203	15.5%	286,277	16.3%	-0.820	-0.022
2023	7,985	8.2%	146,930	8.4%	-0.235	-0.009
2024	6,949	7.1%	149,569	8.5%	-1.444	-0.054
2025	2,664	2.7%	59,009	3.4%	-0.649	-0.038
Health Characteristics						
Acute Myocardial Infarction*	678	0.7%	4,733	0.3%	0.422	0.061
Glaucoma*	4,162	4.2%	44,957	2.6%	1.683	0.093
Cataract*	6,759	6.9%	75,868	4.3%	2.570	0.112
Hip/Pelvic Fracture*	155	0.2%	1,839	0.1%	0.053	0.015
Alzheimer's Disease*	395	0.4%	2,238	0.1%	0.276	0.054
Atrial Fibrillation*	3,237	3.3%	22,903	1.3%	1.998	0.133
Diabetes*	17,277	17.6%	158,054	9.0%	8.618	0.256
Hyperlipidemia*	32,772	33.5%	355,193	20.3%	13.185	0.301
Heart Failure/Non-Ischemic Heart Disease*	4,189	4.3%	27,705	1.6%	2.696	0.160
Hypertension*	37,525	38.3%	386,311	22.1%	16.261	0.360

Table 1am. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Ischemic Heart Disease*	8,144	8.3%	47,271	2.7%	5.617	0.248
Rheumatoid Arthritis/Osteoarthritis*	30,534	31.2%	281,873	16.1%	15.085	0.361
Anemia*	12,808	13.1%	134,395	7.7%	5.405	0.178
Asthma*	14,886	15.2%	168,639	9.6%	5.572	0.170
Chronic Kidney Disease*	6,648	6.8%	55,361	3.2%	3.628	0.167
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	9,881	10.1%	90,355	5.2%	4.931	0.187
Osteoporosis*	4,577	4.7%	49,524	2.8%	1.846	0.097
Depression, Bipolar or Other Mood Disorders*	40,434	41.3%	439,869	25.1%	16.174	0.349
Hypothyroidism*	16,177	16.5%	174,365	10.0%	6.563	0.195
Pneumonia*	2,670	2.7%	30,344	1.7%	0.994	0.067
Parkinson's Disease*	730	0.7%	3,917	0.2%	0.522	0.075
Non-Alzheimer's Dementia*	1,398	1.4%	8,834	0.5%	0.923	0.094
Sleep Disorder*	18,563	19.0%	160,997	9.2%	9.763	0.284
Substance Use Disorder*	16,583	16.9%	206,702	11.8%	5.132	0.147
Anxiety*	37,971	38.8%	455,577	26.0%	12.762	0.275
Behavioral Disorders*	8,885	9.1%	127,378	7.3%	1.800	0.066
Sympathomimetics/Alpha-1 Agonists*	12,457	12.7%	153,836	8.8%	3.937	0.127
Ergot Derivatives and Methysergide*	335	0.3%	2,642	0.2%	0.191	0.039
Triptans/Ditans	254	0.3%	152	0.0%	0.251	0.069
Antihypertensives*	28,723	29.3%	319,904	18.3%	11.065	0.262
Major Surgical Procedure*	7,145	7.3%	91,532	5.2%	2.070	0.086
Stroke/Transient Ischemic Attack (TIA)*	6,781	6.9%	32,495	1.9%	5.069	0.249

Table 1am. Aggregated Unadjusted Characteristics of mAb-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	1,903	1.9%	17,166	1.0%	0.963	0.080
BMI Overweight/Obese*	22,619	23.1%	263,018	15.0%	8.080	0.207
Other Psychological Disorders*	2,937	3.0%	29,482	1.7%	1.316	0.087
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	29.1	25.1	14.7	17.2	14.399	0.669
Mean number of Non-Proprietarys dispensed	10.8	6.8	6.3	5.4	4.513	0.731
Mean number of unique drug classes dispensed	10.1	6.1	5.9	4.9	4.180	0.751
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	15.7	13.1	9.3	11.1	6.395	0.528
Mean number of emergency room encounters	0.7	1.7	0.5	1.4	0.148	0.094
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.3	0.030	0.079
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.1	0.002	0.016
Mean number of other ambulatory encounters	5.3	14.9	3.3	11.0	2.049	0.156

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 1an. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Patient Characteristics	**Number**	**Percent**	**Number**	**Percent**		
Unique patients	97,928	100.0%	97,928	5.6%		
Demographic Characteristics	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean Age (Years)*	48.6	13.2	48.5	13.6	0.042	0.003
Age	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
18-29 years	12,159	12.4%	12,986	13.3%	-0.844	-0.025
30-39 years	18,236	18.6%	18,622	19.0%	-0.394	-0.010
40-49 years	23,099	23.6%	21,586	22.0%	1.545	0.037
50-59 years	20,669	21.1%	19,542	20.0%	1.151	0.028
≥ 60 years	23,765	24.3%	25,192	25.7%	-1.457	-0.034
Sex*						
Female	82,794	84.5%	83,266	85.0%	-0.482	-0.013
Male	15,134	15.5%	14,662	15.0%	0.482	0.013
Race*1						
American Indian or Alaska Native	563	0.6%	533	0.5%	0.031	0.004
Asian	864	0.9%	787	0.8%	0.079	0.009
Black or African American	8,014	8.2%	7,888	8.1%	0.129	0.005
Multi-racial	1,019	1.0%	981	1.0%	0.039	0.004
Native Hawaiian or Other Pacific Islander	292	0.3%	279	0.3%	0.013	0.002
Unknown	26,838	27.4%	26,530	27.1%	0.315	0.007
White	60,338	61.6%	60,930	62.2%	-0.605	-0.012

Table 1an. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Hispanic origin	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Yes	5,351	5.5%	5,943	6.1%	-0.605	-0.026
No	65,940	67.3%	66,013	67.4%	-0.075	-0.002
Unknown	26,637	27.2%	25,972	26.5%	0.679	0.015
Year*						
2018	6,441	6.6%	6,159	6.3%	0.288	0.012
2019	22,173	22.6%	22,415	22.9%	-0.247	-0.006
2020	19,593	20.0%	19,859	20.3%	-0.272	-0.007
2021	16,920	17.3%	16,918	17.3%	0.002	0.000
2022	15,203	15.5%	15,311	15.6%	-0.110	-0.003
2023	7,985	8.2%	7,892	8.1%	0.095	0.003
2024	6,949	7.1%	6,821	7.0%	0.131	0.005
2025	2,664	2.7%	2,553	2.6%	0.113	0.007
Health Characteristics						
Acute Myocardial Infarction*	678	0.7%	644	0.7%	0.035	0.004
Glaucoma*	4,161	4.2%	4,065	4.2%	0.098	0.005
Cataract*	6,756	6.9%	6,632	6.8%	0.127	0.005
Hip/Pelvic Fracture*	155	0.2%	146	0.1%	0.009	0.002
Alzheimer's Disease*	394	0.4%	384	0.4%	0.010	0.002
Atrial Fibrillation*	3,235	3.3%	3,073	3.1%	0.165	0.009
Diabetes*	17,274	17.6%	17,221	17.6%	0.054	0.001
Hyperlipidemia*	32,766	33.5%	32,435	33.1%	0.338	0.007
Heart Failure/Non-Ischemic Heart Disease*	4,186	4.3%	3,947	4.0%	0.244	0.012
Hypertension*	37,519	38.3%	37,234	38.0%	0.291	0.006

Table 1an. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Health Characteristics	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Ischemic Heart Disease*	8,140	8.3%	7,494	7.7%	0.660	0.024
Rheumatoid Arthritis/Osteoarthritis*	30,528	31.2%	30,240	30.9%	0.294	0.006
Anemia*	12,805	13.1%	12,727	13.0%	0.080	0.002
Asthma*	14,881	15.2%	14,675	15.0%	0.210	0.006
Chronic Kidney Disease*	6,645	6.8%	6,478	6.6%	0.171	0.007
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis*	9,878	10.1%	9,486	9.7%	0.400	0.013
Osteoporosis*	4,575	4.7%	4,538	4.6%	0.038	0.002
Depression, Bipolar or Other Mood Disorders*	40,428	41.3%	40,859	41.7%	-0.440	-0.009
Hypothyroidism*	16,173	16.5%	16,131	16.5%	0.043	0.001
Pneumonia*	2,669	2.7%	2,571	2.6%	0.100	0.006
Parkinson's Disease*	729	0.7%	682	0.7%	0.048	0.006
Non-Alzheimer's Dementia*	1,397	1.4%	1,350	1.4%	0.048	0.004
Sleep Disorder*	18,560	19.0%	18,549	18.9%	0.011	0.000
Substance Use Disorder*	16,581	16.9%	16,316	16.7%	0.271	0.007
Anxiety*	37,965	38.8%	38,270	39.1%	-0.311	-0.006
Behavioral Disorders*	8,884	9.1%	9,083	9.3%	-0.203	-0.007
Sympathomimetics/Alpha-1 Agonists*	12,456	12.7%	12,428	12.7%	0.029	0.001
Ergot Derivatives and Methysergide*	335	0.3%	319	0.3%	0.016	0.003
Triptans/Ditans	254	0.3%	16	0.0%	0.243	0.066
Antihypertensives*	28,719	29.3%	28,583	29.2%	0.139	0.003
Major Surgical Procedure*	7,143	7.3%	7,055	7.2%	0.090	0.003
Stroke/Transient Ischemic Attack (TIA)*	6,775	6.9%	6,053	6.2%	0.737	0.030

Table 1an. Aggregated Adjusted Characteristics of mAb-Triptans Exposure with Intentional Self-Harm Outcome (Propensity Score Matched, Fixed Ratio 1:1, Caliper: 0.05), in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Medical Product				Covariate Balance	
	mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome			
Health Characteristics	**Number**	**Percent**	**Number**	**Percent**	**Absolute Difference**	**Standardized Difference**
Benign Prostatic Hyperplasia*	1,902	1.9%	1,859	1.9%	0.044	0.003
BMI Overweight/Obese*	22,617	23.1%	22,686	23.2%	-0.070	-0.002
Other Psychological Disorders*	2,937	3.0%	2,889	3.0%	0.049	0.003
Medical Product Use	**Mean**	**Standard Deviation**	**Mean**	**Standard Deviation**	**Absolute Difference**	**Standardized Difference**
Mean number of filled prescriptions	29.1	25.1	22.5	22.4	6.616	0.278
Mean number of Non-Proprietarys dispensed	10.8	6.8	8.9	6.6	1.923	0.286
Mean number of unique drug classes dispensed	10.1	6.1	8.3	5.9	1.802	0.299
Health Service Utilization Intensity Metrics						
Mean number of ambulatory encounters	15.7	13.1	12.7	13.2	2.993	0.228
Mean number of emergency room encounters	0.7	1.7	0.7	1.8	-0.032	-0.018
Mean number of inpatient hospital encounters	0.1	0.4	0.1	0.5	-0.030	-0.068
Mean number of non-acute institutional encounters	0.0	0.1	0.0	0.2	-0.013	-0.073
Mean number of other ambulatory encounters	5.3	14.9	4.8	13.5	0.542	0.038

*Covariate included in the propensity score logistic regression model.

[1]Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

Table 2. Effect Estimates for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	196,551	76,858.73	142.83	0.39	892	11.61	4.54	0.92 (0.79, 1.07)	0.268
Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	107,555	17,209.50	58.44	0.16	293	17.03	2.72		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	87,161	11,145.64	46.71	0.13	158	14.18	1.81	0.87 (0.70, 1.07)	0.193
Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	87,161	11,145.64	46.71	0.13	182	16.33	2.09		

Table 2. Effect Estimates for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	87,161	34,007.78	142.51	0.39	545	16.03	6.25	0.96 (0.81, 1.14)	0.627
Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	87,161	14,011.58	58.72	0.16	225	16.06	2.58		

Table 3. Effect Estimates for Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	107,666	39,244.77	133.14	0.36	623	15.87	5.79	1.63 (1.49, 1.78)	<0.001
Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	1,236,315	323,434.51	95.55	0.26	2,913	9.01	2.36		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	107,477	19,278.56	65.52	0.18	308	15.98	2.87	1.07 (0.91, 1.25)	0.437
Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	107,477	19,278.56	65.52	0.18	289	14.99	2.69		

Table 3. Effect Estimates for Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	107,477	39,181.21	133.15	0.36	619	15.80	5.76	1.04 (0.92, 1.17)	0.577
Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	107,477	28,306.72	96.20	0.26	450	15.90	4.19		

Table 4. Effect Estimates for mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	202,186	235,925.96	426.20	1.17	2,882	12.22	14.25		
Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	146,642	115,260.82	287.09	0.79	1,890	16.40	12.89	0.94 (0.88, 0.99)	0.029
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	120,065	59,714.49	181.66	0.50	923	15.46	7.69		
Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	120,065	59,714.49	181.66	0.50	903	15.12	7.52	1.02 (0.93, 1.12)	0.64

Table 4. Effect Estimates for mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	120,065	139,041.79	422.98	1.16	2,105	15.14	17.53	1.04 (0.97, 1.12)	0.234
Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	120,065	94,953.41	288.86	0.79	1,380	14.53	11.49		

Table 5. Effect Estimates for mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	86,646	85,179.21	359.07	0.98	1,563	18.35	18.04	1.62 (1.53, 1.72)	<0.001
Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	1,641,343	900,681.46	200.43	0.55	7,817	8.68	4.76		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	86,639	34,695.24	146.27	0.40	614	17.70	7.09	1.12 (1.00, 1.26)	0.053
Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	86,639	34,695.24	146.27	0.40	548	15.79	6.33		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	86,639	85,168.37	359.05	0.98	1,563	18.35	18.04	1.17 (1.07, 1.28)	<0.001
Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	86,639	50,162.08	211.47	0.58	780	15.55	9.00		

Table 6. Effect Estimates for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
Small Molecule CGRP Antagonists Exposure with Constipation Outcome	196,551	76,960.94	143.02	0.39	652	8.47	3.32		
Onabotulinum Toxin Exposure with Constipation Outcome	107,555	17,218.98	58.47	0.16	230	13.36	2.14	0.88 (0.74, 1.04)	0.135
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Constipation Outcome	87,161	11,151.64	46.73	0.13	118	10.58	1.35		
Onabotulinum Toxin Exposure with Constipation Outcome	87,161	11,151.64	46.73	0.13	145	13.00	1.66	0.81 (0.64, 1.04)	0.097
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Constipation Outcome	87,161	34,067.63	142.76	0.39	405	11.89	4.65		
Onabotulinum Toxin Exposure with Constipation Outcome	87,161	14,019.64	58.75	0.16	178	12.70	2.04	0.91 (0.74, 1.10)	0.323

Table 7. Effect Estimates for Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
Small Molecule CGRP Antagonists Exposure with Constipation Outcome	107,666	39,299.87	133.32	0.37	471	11.98	4.37	1.62 (1.46, 1.79)	<0.001
Triptans Exposure with Constipation Outcome	1,236,315	323,635.96	95.61	0.26	2,207	6.82	1.79		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Constipation Outcome	107,477	19,295.10	65.57	0.18	234	12.13	2.18	1.04 (0.87, 1.25)	0.674
Triptans Exposure with Constipation Outcome	107,477	19,295.10	65.57	0.18	225	11.66	2.09		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Constipation Outcome	107,477	39,236.31	133.34	0.37	467	11.90	4.35	1.01 (0.88, 1.16)	0.886
Triptans Exposure with Constipation Outcome	107,477	28,334.82	96.29	0.26	347	12.25	3.23		

Table 8. Effect Estimates for mAb-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
mAb Exposure with Constipation Outcome	202,186	236,627.40	427.47	1.17	2,152	9.09	10.64		
Onabotulinum Toxin Exposure with Constipation Outcome	146,642	115,528.23	287.75	0.79	1,480	12.81	10.09	0.90 (0.85, 0.97)	0.004
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
mAb Exposure with Constipation Outcome	120,065	59,888.88	182.19	0.50	693	11.57	5.77		
Onabotulinum Toxin Exposure with Constipation Outcome	120,065	59,888.88	182.19	0.50	696	11.62	5.80	1.00 (0.90, 1.11)	0.936
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
mAb Exposure with Constipation Outcome	120,065	139,533.14	424.47	1.16	1,593	11.42	13.27		
Onabotulinum Toxin Exposure with Constipation Outcome	120,065	95,167.13	289.51	0.79	1,061	11.15	8.84	1.02 (0.95, 1.11)	0.551

Table 9. Effect Estimates for mAb-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
mAb Exposure with Constipation Outcome	86,646	85,539.87	360.59	0.99	1,186	13.86	13.69	1.58 (1.48, 1.69)	<0.001
Triptans Exposure with Constipation Outcome	1,641,343	901,668.68	200.65	0.55	5,937	6.58	3.62		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
mAb Exposure with Constipation Outcome	86,639	34,787.41	146.66	0.40	454	13.05	5.24	1.07 (0.93, 1.22)	0.345
Triptans Exposure with Constipation Outcome	86,639	34,787.41	146.66	0.40	426	12.25	4.92		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
mAb Exposure with Constipation Outcome	86,639	85,529.02	360.57	0.99	1,186	13.87	13.69	1.17 (1.06, 1.30)	0.002
Triptans Exposure with Constipation Outcome	86,639	50,265.02	211.91	0.58	587	11.68	6.78		

Table 10. Effect Estimates for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome	196,551	77,154.08	143.38	0.39	104	1.35	0.53	0.88 (0.56, 1.37)	0.57
Onabotulinum Toxin Exposure with GI Hypomotility Outcome	107,555	17,249.36	58.58	0.16	32	1.86	0.30		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome	87,161	11,166.70	46.79	0.13	18	1.61	0.21	0.90 (0.48, 1.70)	0.746
Onabotulinum Toxin Exposure with GI Hypomotility Outcome	87,161	11,166.70	46.79	0.13	20	1.79	0.23		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome	87,161	34,193.00	143.29	0.39	52	1.52	0.60	0.85 (0.50, 1.46)	0.556
Onabotulinum Toxin Exposure with GI Hypomotility Outcome	87,161	14,043.24	58.85	0.16	24	1.71	0.28		

Table 11. Effect Estimates for Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome	107,666	39,448.83	133.83	0.37	65	1.65	0.60	1.44 (1.10, 1.88)	0.009
Triptans Exposure with GI Hypomotility Outcome	1,236,315	324,091.67	95.75	0.26	330	1.02	0.27		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome	107,477	19,340.40	65.73	0.18	31	1.60	0.29	0.89 (0.55, 1.44)	0.623
Triptans Exposure with GI Hypomotility Outcome	107,477	19,340.40	65.73	0.18	35	1.81	0.33		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome	107,477	39,384.14	133.84	0.37	64	1.63	0.60	0.88 (0.61, 1.28)	0.509
Triptans Exposure with GI Hypomotility Outcome	107,477	28,408.72	96.54	0.26	54	1.90	0.50		

Table 12. Effect Estimates for mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
mAb Exposure with GI Hypomotility Outcome	202,186	238,509.53	430.87	1.18	336	1.41	1.66		
Onabotulinum Toxin Exposure with GI Hypomotility Outcome	146,642	116,280.25	289.63	0.79	193	1.66	1.32	1.00 (0.83, 1.19)	0.957
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
mAb Exposure with GI Hypomotility Outcome	120,065	60,349.36	183.59	0.50	101	1.67	0.84		
Onabotulinum Toxin Exposure with GI Hypomotility Outcome	120,065	60,349.36	183.59	0.50	94	1.56	0.78	1.07 (0.81, 1.42)	0.616
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
mAb Exposure with GI Hypomotility Outcome	120,065	140,932.83	428.73	1.17	251	1.78	2.09		
Onabotulinum Toxin Exposure with GI Hypomotility Outcome	120,065	95,697.83	291.12	0.80	145	1.52	1.21	1.15 (0.94, 1.42)	0.18

Table 13. Effect Estimates for mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
mAb Exposure with GI Hypomotility Outcome	86,646	86,525.80	364.74	1.00	175	2.02	2.02	1.53 (1.29, 1.81)	<0.001
Triptans Exposure with GI Hypomotility Outcome	1,641,343	904,176.87	201.21	0.55	897	0.99	0.55		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
mAb Exposure with GI Hypomotility Outcome	86,639	34,994.14	147.53	0.40	79	2.26	0.91	1.25 (0.90, 1.75)	0.18
Triptans Exposure with GI Hypomotility Outcome	86,639	34,994.14	147.53	0.40	63	1.80	0.73		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
mAb Exposure with GI Hypomotility Outcome	86,639	86,514.95	364.73	1.00	175	2.02	2.02	1.06 (0.81, 1.38)	0.67
Triptans Exposure with GI Hypomotility Outcome	86,639	50,539.22	213.06	0.58	93	1.84	1.07		

Table 14. Effect Estimates for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	196,551	77,107.83	143.29	0.39	227	2.94	1.15	1.08 (0.78, 1.48)	0.641
Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	107,555	17,246.72	58.57	0.16	59	3.42	0.55		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	87,161	11,163.64	46.78	0.13	40	3.58	0.46	1.08 (0.69, 1.69)	0.733
Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	87,161	11,163.64	46.78	0.13	37	3.31	0.42		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	87,161	34,154.07	143.12	0.39	140	4.10	1.61	1.18 (0.82, 1.70)	0.368
Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	87,161	14,041.22	58.84	0.16	46	3.28	0.53		

Table 15. Effect Estimates for Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	107,666	39,419.30	133.73	0.37	155	3.93	1.44	1.73 (1.45, 2.07)	<0.001
Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	1,236,315	324,001.36	95.72	0.26	664	2.05	0.54		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	107,477	19,331.04	65.69	0.18	67	3.47	0.62	1.10 (0.78, 1.55)	0.596
Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	107,477	19,331.04	65.69	0.18	61	3.16	0.57		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	107,477	39,355.19	133.74	0.37	153	3.89	1.42	1.12 (0.87, 1.44)	0.383
Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	107,477	28,399.74	96.51	0.26	102	3.59	0.95		

Table 16. Effect Estimates for mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	202,186	238,028.60	430.00	1.18	800	3.36	3.96		
								1.08 (0.96, 1.22)	0.209
Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	146,642	116,104.67	289.19	0.79	437	3.76	2.98		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	120,065	60,228.36	183.22	0.50	241	4.00	2.01		
								1.10 (0.92, 1.32)	0.305
Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	120,065	60,228.36	183.22	0.50	219	3.64	1.82		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	120,065	140,590.04	427.69	1.17	560	3.98	4.66		
								1.14 (0.99, 1.31)	0.06
Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	120,065	95,562.93	290.71	0.80	332	3.47	2.77		

Table 17. Effect Estimates for mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	86,646	86,307.70	363.82	1.00	412	4.77	4.75		
								1.84 (1.64, 2.05)	<0.001
Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	1,641,343	903,678.28	201.10	0.55	1,772	1.96	1.08		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	86,639	34,949.32	147.34	0.40	166	4.75	1.92		
								1.31 (1.04, 1.65)	0.023
Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	86,639	34,949.32	147.34	0.40	127	3.63	1.47		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	86,639	86,296.86	363.81	1.00	412	4.77	4.76		
								1.23 (1.03, 1.47)	0.02
Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	86,639	50,479.99	212.81	0.58	193	3.82	2.23		

Table 18. Effect Estimates for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome	220,408	86,933.99	144.06	0.39	52	0.60	0.24	0.73 (0.40, 1.32)	0.292
Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome	123,545	19,827.32	58.62	0.16	19	0.96	0.15		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome	99,525	12,727.01	46.71	0.13	*****	*****	*****	0.71 (0.32, 1.61)	0.416
Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome	99,525	12,727.01	46.71	0.13	14	1.10	0.14		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome	99,525	39,500.53	144.96	0.40	27	0.68	0.27	0.83 (0.42, 1.67)	0.61
Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome	99,525	16,019.70	58.79	0.16	15	0.94	0.15		

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

Table 19. Effect Estimates for Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome	121,481	44,934.83	135.10	0.37	33	0.73	0.27	1.33 (0.92, 1.94)	0.133
Triptans Exposure with Intentional Self-Harm Outcome	1,322,232	349,174.51	96.46	0.26	239	0.68	0.18		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome	121,262	21,863.35	65.85	0.18	13	0.59	0.11	1.00 (0.46, 2.16)	1
Triptans Exposure with Intentional Self-Harm Outcome	121,262	21,863.35	65.85	0.18	13	0.59	0.11		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome	121,262	44,862.33	135.13	0.37	33	0.74	0.27	0.94 (0.55, 1.63)	0.835
Triptans Exposure with Intentional Self-Harm Outcome	121,262	32,102.28	96.69	0.26	23	0.72	0.19		

Table 20. Effect Estimates for mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
mAb Exposure with Intentional Self-Harm Outcome	226,925	269,257.26	433.39	1.19	232	0.86	1.02		
Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome	167,172	131,977.91	288.36	0.79	101	0.77	0.60	1.14 (0.90, 1.45)	0.276
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
mAb Exposure with Intentional Self-Harm Outcome	136,148	68,340.51	183.34	0.50	68	1.00	0.50		
Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome	136,148	68,340.51	183.34	0.50	60	0.88	0.44	1.13 (0.80, 1.60)	0.48
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
mAb Exposure with Intentional Self-Harm Outcome	136,148	160,879.05	431.60	1.18	135	0.84	0.99		
Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome	136,148	108,092.83	289.99	0.79	91	0.84	0.67	1.05 (0.80, 1.37)	0.74

Table 21. Effect Estimates for mAb-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Site-Adjusted Analysis									
mAb Exposure with Intentional Self-Harm Outcome	97,934	98,944.49	369.02	1.01	84	0.85	0.86	1.52 (1.20, 1.91)	<0.001
Triptans Exposure with Intentional Self-Harm Outcome	1,751,563	971,171.32	202.52	0.55	682	0.70	0.39		
Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper= 0.05									
mAb Exposure with Intentional Self-Harm Outcome	97,928	39,896.40	148.80	0.41	37	0.93	0.38	0.86 (0.55, 1.34)	0.503
Triptans Exposure with Intentional Self-Harm Outcome	97,928	39,896.40	148.80	0.41	43	1.08	0.44		
Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper= 0.05									
mAb Exposure with Intentional Self-Harm Outcome	97,928	98,936.19	369.01	1.01	84	0.85	0.86	1.08 (0.75, 1.54)	0.695
Triptans Exposure with Intentional Self-Harm Outcome	97,928	57,571.54	214.73	0.59	50	0.87	0.51		

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	304,727,196	N/A	304,727,196	N/A	304,727,196	N/A	304,727,196	N/A
Had required coverage type (medical and/or drug coverage)	228,672,454	76,054,742	228,672,454	76,054,742	228,672,454	76,054,742	228,672,454	76,054,742
Enrolled during specified age range	175,734,070	52,938,384	175,734,070	52,938,384	175,734,070	52,938,384	175,734,070	52,938,384
Had requestable medical charts	175,734,070	0	175,734,070	0	175,734,070	0	175,734,070	0
Met demographic requirements (sex, race, and Hispanic origin)	175,647,511	86,559	175,647,511	86,559	175,647,511	86,559	175,647,511	86,559
Members with a valid index event								
Had any cohort-defining claim during the query period	693,001	174,954,510	826,547	174,820,964	693,001	174,954,510	3,824,569	171,822,942
Claim recorded during specified age range	691,890	1,111	823,186	3,361	691,890	1,111	3,751,343	73,226
Episode defining index claim recorded during the query period	691,244	646	750,061	73,125	691,244	646	3,402,812	348,531

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members with required pre-index history								
Had sufficient pre-index continuous enrollment	537,245	153,999	599,986	150,075	537,245	153,999	2,621,479	781,333
Met inclusion and exclusion criteria[1]	198,438	338,807	108,763	491,223	120,194	417,051	1,238,014	1,383,465
Evidence of all CGRP washout	N/A	99,662	N/A	69,598	N/A	101,309	N/A	106,678
Evidence of cancer	N/A	52,379	N/A	112,654	N/A	52,949	N/A	190,344
Evidence of comparator washout	N/A	58,737	N/A	70,100	N/A	207,423	N/A	112,901
Evidence of depression or intentional self-harm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of GI illness	N/A	82,309	N/A	128,676	N/A	83,136	N/A	252,655
Evidence of self-harm exclusion	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of serious GI exclusion	N/A	5,922	N/A	17,413	N/A	5,999	N/A	22,437
Evidence of traumatic brain injury	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
No evidence of two migraine diagnoses	N/A	205,679	N/A	405,281	N/A	242,698	N/A	1,265,494

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
No evidence of migraine diagnosis and neurology encounter	N/A	228,391	N/A	418,341	N/A	277,640	N/A	1,269,332
No evidence of migraine diagnosis and Triptan dispensing	N/A	260,795	N/A	448,832	N/A	251,005	N/A	1,125,633
Met event incidence criteria	198,438	0	108,763	0	120,194	0	1,238,014	0
Members with required post-index follow-up								
Had sufficient post-index continuous enrollment	198,438	0	108,763	0	120,194	0	1,238,014	0
Had minimum days' supply on index date	198,438	0	108,763	0	120,194	0	1,238,014	0
Had index episode of at least required length	198,438	0	108,763	0	120,194	0	1,238,014	0
Had index episode longer than blackout period	198,438	0	108,763	0	120,194	0	1,238,014	0
Did not have an event during blackout period	198,438	0	108,763	0	120,194	0	1,238,014	0
Final cohort								
Number of members	198,438	N/A	108,763	N/A	120,194	N/A	1,238,014	N/A
Number of episodes	198,438	N/A	108,763	N/A	120,194	N/A	1,238,014	N/A

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
	Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Small Molecule CGRP Antagonists Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting comparative cohort eligibility requirements								
Excluded due to ineligibility for comparative analysis[2]	196,551	1,887	107,555	1,208	107,666	12,528	1,236,315	1,699
Included in comparative analysis	87,161	109,390	87,161	20,394	107,477	189	107,477	1,128,838
Additional information								
Number of events in comparative analysis	545	N/A	225	N/A	619	N/A	450	N/A

[1]Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

[2]Excluded due to same day initiation of both exposure groups or prior initiation of other exposure group or due to prior initiation of other exposure group in a prior look or due to 0 days at risk or due to propensity score trimming or due to lack of treatment heterogeneity in stratum.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not applicable

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome				mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
	Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	355,102,488	N/A	355,102,488	N/A	355,102,488	N/A	355,102,488	N/A
Had required coverage type (medical and/or drug coverage)	264,706,368	90,396,120	264,706,368	90,396,120	264,706,368	90,396,120	264,706,368	90,396,120
Enrolled during specified age range	206,478,385	58,227,983	206,478,385	58,227,983	206,478,385	58,227,983	206,478,385	58,227,983
Had requestable medical charts	206,478,385	0	206,478,385	0	206,478,385	0	206,478,385	0
Met demographic requirements (sex, race, and Hispanic origin)	206,384,134	94,251	206,384,134	94,251	206,384,134	94,251	206,384,134	94,251
Members with a valid index event								
Had any cohort-defining claim during the query period	988,722	205,395,412	591,251	205,792,883	4,801,320	201,582,814	591,251	205,792,883
Claim recorded during specified age range	982,896	5,826	590,190	1,061	4,664,071	137,249	590,190	1,061
Episode defining index claim recorded during the query period	913,313	69,583	588,960	1,230	4,329,414	334,657	588,960	1,230

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome				mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
	Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members with required pre-index history								
Had sufficient pre-index continuous enrollment	738,475	174,838	423,541	165,419	3,355,793	973,621	423,541	165,419
Met inclusion and exclusion criteria[1]	150,236	588,239	206,780	216,761	1,644,368	1,711,425	97,179	326,362
Evidence of all CGRP washout	N/A	70,681	N/A	53,673	N/A	102,747	N/A	55,951
Evidence of cancer	N/A	136,996	N/A	37,252	N/A	234,721	N/A	38,252
Evidence of comparator washout	N/A	71,183	N/A	52,127	N/A	109,067	N/A	217,029
Evidence of depression or intentional self-harm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of GI illness	N/A	158,252	N/A	64,867	N/A	319,493	N/A	66,853
Evidence of self-harm exclusion	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of serious GI exclusion	N/A	22,451	N/A	4,531	N/A	29,453	N/A	4,672
Evidence of traumatic brain injury	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
No evidence of two migraine diagnoses	N/A	492,645	N/A	100,673	N/A	1,580,365	N/A	140,944

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome				mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
	Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
No evidence of migraine diagnosis and neurology encounter	N/A	506,492	N/A	118,625	N/A	1,582,667	N/A	167,005
No evidence of migraine diagnosis and Triptan dispensing	N/A	540,606	N/A	146,871	N/A	1,416,655	N/A	139,494
Met event incidence criteria	150,236	0	206,780	0	1,644,368	0	97,179	0
Members with required post-index follow-up								
Had sufficient post-index continuous enrollment	150,236	0	206,780	0	1,644,368	0	97,179	0
Had minimum days' supply on index date	150,236	0	206,780	0	1,644,368	0	97,179	0
Had index episode of at least required length	150,236	0	206,780	0	1,644,368	0	97,179	0
Had index episode longer than blackout period	150,236	0	206,780	0	1,644,368	0	97,179	0
Did not have an event during blackout period	150,236	0	206,780	0	1,644,368	0	97,179	0
Final cohort								
Number of members	150,236	N/A	206,780	N/A	1,644,368	N/A	97,179	N/A
Number of episodes	150,236	N/A	206,780	N/A	1,644,368	N/A	97,179	N/A

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome				mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome			
	Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		mAb Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting comparative cohort eligibility requirements								
Excluded due to ineligibility for comparative analysis[2]	146,642	3,594	202,186	4,594	1,641,343	3,025	*****	*****
Included in comparative analysis	120,065	26,577	120,065	82,121	86,639	1,554,704	86,639	*****
Additional information								
Number of events in comparative analysis	1,380	N/A	2,105	N/A	780	N/A	1,563	N/A

[1]Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

[2]Excluded due to same day initiation of both exposure groups or prior initiation of other exposure group or due to prior initiation of other exposure group in a prior look or due to 0 days at risk or due to propensity score trimming or due to lack of treatment heterogeneity in stratum.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not applicable

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome			
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome		Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	304,727,196	N/A	304,727,196	N/A	304,727,196	N/A	304,727,196	N/A
Had required coverage type (medical and/or drug coverage)	228,672,454	76,054,742	228,672,454	76,054,742	228,672,454	76,054,742	228,672,454	76,054,742
Enrolled during specified age range	175,734,070	52,938,384	175,734,070	52,938,384	175,734,070	52,938,384	175,734,070	52,938,384
Had requestable medical charts	175,734,070	0	175,734,070	0	175,734,070	0	175,734,070	0
Met demographic requirements (sex, race, and Hispanic origin)	175,647,511	86,559	175,647,511	86,559	175,647,511	86,559	175,647,511	86,559
Members with a valid index event								
Had any cohort-defining claim during the query period	693,001	174,954,510	826,547	174,820,964	693,001	174,954,510	3,824,569	171,822,942
Claim recorded during specified age range	691,890	1,111	823,186	3,361	691,890	1,111	3,751,343	73,226
Episode defining index claim recorded during the query period	691,244	646	750,061	73,125	691,244	646	3,402,812	348,531

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome			
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome		Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members with required pre-index history								
Had sufficient pre-index continuous enrollment	537,245	153,999	599,986	150,075	537,245	153,999	2,621,479	781,333
Met inclusion and exclusion criteria[1]	198,438	338,807	108,763	491,223	120,194	417,051	1,238,014	1,383,465
Evidence of all CGRP washout	N/A	99,662	N/A	69,598	N/A	101,309	N/A	106,678
Evidence of cancer	N/A	52,379	N/A	112,654	N/A	52,949	N/A	190,344
Evidence of comparator washout	N/A	58,737	N/A	70,100	N/A	207,423	N/A	112,901
Evidence of depression or intentional self-harm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of GI illness	N/A	82,309	N/A	128,676	N/A	83,136	N/A	252,655
Evidence of self-harm exclusion	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of serious GI exclusion	N/A	5,922	N/A	17,413	N/A	5,999	N/A	22,437
Evidence of traumatic brain injury	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
No evidence of two migraine diagnoses	N/A	205,679	N/A	405,281	N/A	242,698	N/A	1,265,494
No evidence of migraine diagnosis and neurology encounter	N/A	228,391	N/A	418,341	N/A	277,640	N/A	1,269,332

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome			
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome		Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
No evidence of migraine diagnosis and Triptan dispensing	N/A	260,795	N/A	448,832	N/A	251,005	N/A	1,125,633
Met event incidence criteria	198,438	0	108,763	0	120,194	0	1,238,014	0
Members with required post-index follow-up								
Had sufficient post-index continuous enrollment	198,438	0	108,763	0	120,194	0	1,238,014	0
Had minimum days' supply on index date	198,438	0	108,763	0	120,194	0	1,238,014	0
Had index episode of at least required length	198,438	0	108,763	0	120,194	0	1,238,014	0
Had index episode longer than blackout period	198,438	0	108,763	0	120,194	0	1,238,014	0
Did not have an event during blackout period	198,438	0	108,763	0	120,194	0	1,238,014	0
Final cohort								
Number of members	198,438	N/A	108,763	N/A	120,194	N/A	1,238,014	N/A
Number of episodes	198,438	N/A	108,763	N/A	120,194	N/A	1,238,014	N/A

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome			
	Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Onabotulinum Toxin Exposure with Constipation Outcome		Small Molecule CGRP Antagonists Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting comparative cohort eligibility requirements								
Excluded due to ineligibility for comparative analysis[2]	196,551	1,887	107,555	1,208	107,666	12,528	1,236,315	1,699
Included in comparative analysis	87,161	109,390	87,161	20,394	107,477	189	107,477	1,128,838
Additional information								
Number of events in comparative analysis	405	N/A	178	N/A	467	N/A	347	N/A

[1]Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

[2]Excluded due to same day initiation of both exposure groups or prior initiation of other exposure group or due to prior initiation of other exposure group in a prior look or due to 0 days at risk or due to propensity score trimming or due to lack of treatment heterogeneity in stratum.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not applicable

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Constipation Outcome				mAb-Triptans Exposure with Constipation Outcome			
	Onabotulinum Toxin Exposure with Constipation Outcome		mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome		mAb Exposure with Constipation Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	355,102,488	N/A	355,102,488	N/A	355,102,488	N/A	355,102,488	N/A
Had required coverage type (medical and/or drug coverage)	264,706,368	90,396,120	264,706,368	90,396,120	264,706,368	90,396,120	264,706,368	90,396,120
Enrolled during specified age range	206,478,385	58,227,983	206,478,385	58,227,983	206,478,385	58,227,983	206,478,385	58,227,983
Had requestable medical charts	206,478,385	0	206,478,385	0	206,478,385	0	206,478,385	0
Met demographic requirements (sex, race, and Hispanic origin)	206,384,134	94,251	206,384,134	94,251	206,384,134	94,251	206,384,134	94,251
Members with a valid index event								
Had any cohort-defining claim during the query period	988,722	205,395,412	591,251	205,792,883	4,801,320	201,582,814	591,251	205,792,883
Claim recorded during specified age range	982,896	5,826	590,190	1,061	4,664,071	137,249	590,190	1,061
Episode defining index claim recorded during the query period	913,313	69,583	588,960	1,230	4,329,414	334,657	588,960	1,230

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Constipation Outcome				mAb-Triptans Exposure with Constipation Outcome			
	Onabotulinum Toxin Exposure with Constipation Outcome		mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome		mAb Exposure with Constipation Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members with required pre-index history								
Had sufficient pre-index continuous enrollment	738,475	174,838	423,541	165,419	3,355,793	973,621	423,541	165,419
Met inclusion and exclusion criteria[1]	150,236	588,239	206,780	216,761	1,644,368	1,711,425	97,179	326,362
Evidence of all CGRP washout	N/A	70,681	N/A	53,673	N/A	102,747	N/A	55,951
Evidence of cancer	N/A	136,996	N/A	37,252	N/A	234,721	N/A	38,252
Evidence of comparator washout	N/A	71,183	N/A	52,127	N/A	109,067	N/A	217,029
Evidence of depression or intentional self-harm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of GI illness	N/A	158,252	N/A	64,867	N/A	319,493	N/A	66,853
Evidence of self-harm exclusion	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of serious GI exclusion	N/A	22,451	N/A	4,531	N/A	29,453	N/A	4,672
Evidence of traumatic brain injury	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
No evidence of two migraine diagnoses	N/A	492,645	N/A	100,673	N/A	1,580,365	N/A	140,944
No evidence of migraine diagnosis and neurology encounter	N/A	506,492	N/A	118,625	N/A	1,582,667	N/A	167,005

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Constipation Outcome				mAb-Triptans Exposure with Constipation Outcome			
	Onabotulinum Toxin Exposure with Constipation Outcome		mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome		mAb Exposure with Constipation Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
No evidence of migraine diagnosis and Triptan dispensing	N/A	540,606	N/A	146,871	N/A	1,416,655	N/A	139,494
Met event incidence criteria	150,236	0	206,780	0	1,644,368	0	97,179	0
Members with required post-index follow-up								
Had sufficient post-index continuous enrollment	150,236	0	206,780	0	1,644,368	0	97,179	0
Had minimum days' supply on index date	150,236	0	206,780	0	1,644,368	0	97,179	0
Had index episode of at least required length	150,236	0	206,780	0	1,644,368	0	97,179	0
Had index episode longer than blackout period	150,236	0	206,780	0	1,644,368	0	97,179	0
Did not have an event during blackout period	150,236	0	206,780	0	1,644,368	0	97,179	0
Final cohort								
Number of members	150,236	N/A	206,780	N/A	1,644,368	N/A	97,179	N/A
Number of episodes	150,236	N/A	206,780	N/A	1,644,368	N/A	97,179	N/A
Members meeting comparative cohort eligibility requirements								
Excluded due to ineligibility for comparative analysis[2]	146,642	3,594	202,186	4,594	1,641,343	3,025	*****	*****
Included in comparative analysis	120,065	26,577	120,065	82,121	86,639	1,554,704	86,639	*****
Additional information								

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Constipation Outcome				mAb-Triptans Exposure with Constipation Outcome			
	Onabotulinum Toxin Exposure with Constipation Outcome		mAb Exposure with Constipation Outcome		Triptans Exposure with Constipation Outcome		mAb Exposure with Constipation Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Number of events in comparative analysis	1,061	N/A	1,593	N/A	587	N/A	1,186	N/A

[1]Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

[2]Excluded due to same day initiation of both exposure groups or prior initiation of other exposure group or due to prior initiation of other exposure group in a prior look or due to 0 days at risk or due to propensity score trimming or due to lack of treatment heterogeneity in stratum.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not applicable

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with GI Hypomotility Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with GI Hypomotility Outcome			
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome		Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	304,727,196	N/A	304,727,196	N/A	304,727,196	N/A	304,727,196	N/A
Had required coverage type (medical and/or drug coverage)	228,672,454	76,054,742	228,672,454	76,054,742	228,672,454	76,054,742	228,672,454	76,054,742
Enrolled during specified age range	175,734,070	52,938,384	175,734,070	52,938,384	175,734,070	52,938,384	175,734,070	52,938,384
Had requestable medical charts	175,734,070	0	175,734,070	0	175,734,070	0	175,734,070	0
Met demographic requirements (sex, race, and Hispanic origin)	175,647,511	86,559	175,647,511	86,559	175,647,511	86,559	175,647,511	86,559
Members with a valid index event								
Had any cohort-defining claim during the query period	693,001	174,954,510	826,547	174,820,964	693,001	174,954,510	3,824,569	171,822,942
Claim recorded during specified age range	691,890	1,111	823,186	3,361	691,890	1,111	3,751,343	73,226
Episode defining index claim recorded during the query period	691,244	646	750,061	73,125	691,244	646	3,402,812	348,531

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with GI Hypomotility Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with GI Hypomotility Outcome			
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome		Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members with required pre-index history								
Had sufficient pre-index continuous enrollment	537,245	153,999	599,986	150,075	537,245	153,999	2,621,479	781,333
Met inclusion and exclusion criteria[1]	198,438	338,807	108,763	491,223	120,194	417,051	1,238,014	1,383,465
Evidence of all CGRP washout	N/A	99,662	N/A	69,598	N/A	101,309	N/A	106,678
Evidence of cancer	N/A	52,379	N/A	112,654	N/A	52,949	N/A	190,344
Evidence of comparator washout	N/A	58,737	N/A	70,100	N/A	207,423	N/A	112,901
Evidence of depression or intentional self-harm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of GI illness	N/A	82,309	N/A	128,676	N/A	83,136	N/A	252,655
Evidence of self-harm exclusion	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of serious GI exclusion	N/A	5,922	N/A	17,413	N/A	5,999	N/A	22,437
Evidence of traumatic brain injury	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
No evidence of two migraine diagnoses	N/A	205,679	N/A	405,281	N/A	242,698	N/A	1,265,494
No evidence of migraine diagnosis and neurology encounter	N/A	228,391	N/A	418,341	N/A	277,640	N/A	1,269,332

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with GI Hypomotility Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with GI Hypomotility Outcome			
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome		Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
No evidence of migraine diagnosis and Triptan dispensing	N/A	260,795	N/A	448,832	N/A	251,005	N/A	1,125,633
Met event incidence criteria	198,438	0	108,763	0	120,194	0	1,238,014	0
Members with required post-index follow-up								
Had sufficient post-index continuous enrollment	198,438	0	108,763	0	120,194	0	1,238,014	0
Had minimum days' supply on index date	198,438	0	108,763	0	120,194	0	1,238,014	0
Had index episode of at least required length	198,438	0	108,763	0	120,194	0	1,238,014	0
Had index episode longer than blackout period	198,438	0	108,763	0	120,194	0	1,238,014	0
Did not have an event during blackout period	198,438	0	108,763	0	120,194	0	1,238,014	0
Final cohort								
Number of members	198,438	N/A	108,763	N/A	120,194	N/A	1,238,014	N/A
Number of episodes	198,438	N/A	108,763	N/A	120,194	N/A	1,238,014	N/A
Members meeting comparative cohort eligibility requirements								
Excluded due to ineligibility for comparative analysis[2]	196,551	1,887	107,555	1,208	107,666	12,528	1,236,315	1,699
Included in comparative analysis	87,161	109,390	87,161	20,394	107,477	189	107,477	1,128,838

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with GI Hypomotility Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with GI Hypomotility Outcome			
	Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Onabotulinum Toxin Exposure with GI Hypomotility Outcome		Small Molecule CGRP Antagonists Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Additional information								
Number of events in comparative analysis	52	N/A	24	N/A	64	N/A	54	N/A

[1]Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

[2]Excluded due to same day initiation of both exposure groups or prior initiation of other exposure group or due to prior initiation of other exposure group in a prior look or due to 0 days at risk or due to propensity score trimming or due to lack of treatment heterogeneity in stratum.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not applicable

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with GI Hypomotility Outcome				mAb-Triptans Exposure with GI Hypomotility Outcome			
	Onabotulinum Toxin Exposure with GI Hypomotility Outcome		mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome		mAb Exposure with GI Hypomotility Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	355,102,488	N/A	355,102,488	N/A	355,102,488	N/A	355,102,488	N/A
Had required coverage type (medical and/or drug coverage)	264,706,368	90,396,120	264,706,368	90,396,120	264,706,368	90,396,120	264,706,368	90,396,120
Enrolled during specified age range	206,478,385	58,227,983	206,478,385	58,227,983	206,478,385	58,227,983	206,478,385	58,227,983
Had requestable medical charts	206,478,385	0	206,478,385	0	206,478,385	0	206,478,385	0
Met demographic requirements (sex, race, and Hispanic origin)	206,384,134	94,251	206,384,134	94,251	206,384,134	94,251	206,384,134	94,251
Members with a valid index event								
Had any cohort-defining claim during the query period	988,722	205,395,412	591,251	205,792,883	4,801,320	201,582,814	591,251	205,792,883
Claim recorded during specified age range	982,896	5,826	590,190	1,061	4,664,071	137,249	590,190	1,061
Episode defining index claim recorded during the query period	913,313	69,583	588,960	1,230	4,329,414	334,657	588,960	1,230

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with GI Hypomotility Outcome				mAb-Triptans Exposure with GI Hypomotility Outcome			
	Onabotulinum Toxin Exposure with GI Hypomotility Outcome		mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome		mAb Exposure with GI Hypomotility Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members with required pre-index history								
Had sufficient pre-index continuous enrollment	738,475	174,838	423,541	165,419	3,355,793	973,621	423,541	165,419
Met inclusion and exclusion criteria[1]	150,236	588,239	206,780	216,761	1,644,368	1,711,425	97,179	326,362
Evidence of all CGRP washout	N/A	70,681	N/A	53,673	N/A	102,747	N/A	55,951
Evidence of cancer	N/A	136,996	N/A	37,252	N/A	234,721	N/A	38,252
Evidence of comparator washout	N/A	71,183	N/A	52,127	N/A	109,067	N/A	217,029
Evidence of depression or intentional self-harm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of GI illness	N/A	158,252	N/A	64,867	N/A	319,493	N/A	66,853
Evidence of self-harm exclusion	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of serious GI exclusion	N/A	22,451	N/A	4,531	N/A	29,453	N/A	4,672
Evidence of traumatic brain injury	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
No evidence of two migraine diagnoses	N/A	492,645	N/A	100,673	N/A	1,580,365	N/A	140,944
No evidence of migraine diagnosis and neurology encounter	N/A	506,492	N/A	118,625	N/A	1,582,667	N/A	167,005

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with GI Hypomotility Outcome				mAb-Triptans Exposure with GI Hypomotility Outcome			
	Onabotulinum Toxin Exposure with GI Hypomotility Outcome		mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome		mAb Exposure with GI Hypomotility Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
No evidence of migraine diagnosis and Triptan dispensing	N/A	540,606	N/A	146,871	N/A	1,416,655	N/A	139,494
Met event incidence criteria	150,236	0	206,780	0	1,644,368	0	97,179	0
Members with required post-index follow-up								
Had sufficient post-index continuous enrollment	150,236	0	206,780	0	1,644,368	0	97,179	0
Had minimum days' supply on index date	150,236	0	206,780	0	1,644,368	0	97,179	0
Had index episode of at least required length	150,236	0	206,780	0	1,644,368	0	97,179	0
Had index episode longer than blackout period	150,236	0	206,780	0	1,644,368	0	97,179	0
Did not have an event during blackout period	150,236	0	206,780	0	1,644,368	0	97,179	0
Final cohort								
Number of members	150,236	N/A	206,780	N/A	1,644,368	N/A	97,179	N/A
Number of episodes	150,236	N/A	206,780	N/A	1,644,368	N/A	97,179	N/A
Members meeting comparative cohort eligibility requirements								
Excluded due to ineligibility for comparative analysis[2]	146,642	3,594	202,186	4,594	1,641,343	3,025	*****	*****
Included in comparative analysis	120,065	26,577	120,065	82,121	86,639	1,554,704	86,639	*****
Additional information								

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with GI Hypomotility Outcome				mAb-Triptans Exposure with GI Hypomotility Outcome			
	Onabotulinum Toxin Exposure with GI Hypomotility Outcome		mAb Exposure with GI Hypomotility Outcome		Triptans Exposure with GI Hypomotility Outcome		mAb Exposure with GI Hypomotility Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Number of events in comparative analysis	145	N/A	251	N/A	93	N/A	175	N/A

[1]Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

[2]Excluded due to same day initiation of both exposure groups or prior initiation of other exposure group or due to prior initiation of other exposure group in a prior look or due to 0 days at risk or due to propensity score trimming or due to lack of treatment heterogeneity in stratum.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not applicable

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome			
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	304,727,196	N/A	304,727,196	N/A	304,727,196	N/A	304,727,196	N/A
Had required coverage type (medical and/or drug coverage)	228,672,454	76,054,742	228,672,454	76,054,742	228,672,454	76,054,742	228,672,454	76,054,742
Enrolled during specified age range	175,734,070	52,938,384	175,734,070	52,938,384	175,734,070	52,938,384	175,734,070	52,938,384
Had requestable medical charts	175,734,070	0	175,734,070	0	175,734,070	0	175,734,070	0
Met demographic requirements (sex, race, and Hispanic origin)	175,647,511	86,559	175,647,511	86,559	175,647,511	86,559	175,647,511	86,559
Members with a valid index event								
Had any cohort-defining claim during the query period	693,001	174,954,510	826,547	174,820,964	693,001	174,954,510	3,824,569	171,822,942
Claim recorded during specified age range	691,890	1,111	823,186	3,361	691,890	1,111	3,751,343	73,226
Episode defining index claim recorded during the query period	691,244	646	750,061	73,125	691,244	646	3,402,812	348,531
Members with required pre-index history								

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome			
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Had sufficient pre-index continuous enrollment	537,245	153,999	599,986	150,075	537,245	153,999	2,621,479	781,333
Met inclusion and exclusion criteria[1]	198,438	338,807	108,763	491,223	120,194	417,051	1,238,014	1,383,465
Evidence of all CGRP washout	N/A	99,662	N/A	69,598	N/A	101,309	N/A	106,678
Evidence of cancer	N/A	52,379	N/A	112,654	N/A	52,949	N/A	190,344
Evidence of comparator washout	N/A	58,737	N/A	70,100	N/A	207,423	N/A	112,901
Evidence of depression or intentional self-harm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of GI illness	N/A	82,309	N/A	128,676	N/A	83,136	N/A	252,655
Evidence of self-harm exclusion	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of serious GI exclusion	N/A	5,922	N/A	17,413	N/A	5,999	N/A	22,437
Evidence of traumatic brain injury	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
No evidence of two migraine diagnoses	N/A	205,679	N/A	405,281	N/A	242,698	N/A	1,265,494

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome			
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
No evidence of migraine diagnosis and neurology encounter	N/A	228,391	N/A	418,341	N/A	277,640	N/A	1,269,332
No evidence of migraine diagnosis and Triptan dispensing	N/A	260,795	N/A	448,832	N/A	251,005	N/A	1,125,633
Met event incidence criteria	198,438	0	108,763	0	120,194	0	1,238,014	0
Members with required post-index follow-up								
Had sufficient post-index continuous enrollment	198,438	0	108,763	0	120,194	0	1,238,014	0
Had minimum days' supply on index date	198,438	0	108,763	0	120,194	0	1,238,014	0
Had index episode of at least required length	198,438	0	108,763	0	120,194	0	1,238,014	0
Had index episode longer than blackout period	198,438	0	108,763	0	120,194	0	1,238,014	0
Did not have an event during blackout period	198,438	0	108,763	0	120,194	0	1,238,014	0
Final cohort								
Number of members	198,438	N/A	108,763	N/A	120,194	N/A	1,238,014	N/A
Number of episodes	198,438	N/A	108,763	N/A	120,194	N/A	1,238,014	N/A
Members meeting comparative cohort eligibility requirements								

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome			
	Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Small Molecule CGRP Antagonists Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Excluded due to ineligibility for comparative analysis[2]	196,551	1,887	107,555	1,208	107,666	12,528	1,236,315	1,699
Included in comparative analysis	87,161	109,390	87,161	20,394	107,477	189	107,477	1,128,838
Additional information								
Number of events in comparative analysis	140	N/A	46	N/A	153	N/A	102	N/A

[1]Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

[2]Excluded due to same day initiation of both exposure groups or prior initiation of other exposure group or due to prior initiation of other exposure group in a prior look or due to 0 days at risk or due to propensity score trimming or due to lack of treatment heterogeneity in stratum.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not applicable

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome				mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome			
	Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	355,102,488	N/A	355,102,488	N/A	355,102,488	N/A	355,102,488	N/A
Had required coverage type (medical and/or drug coverage)	264,706,368	90,396,120	264,706,368	90,396,120	264,706,368	90,396,120	264,706,368	90,396,120
Enrolled during specified age range	206,478,385	58,227,983	206,478,385	58,227,983	206,478,385	58,227,983	206,478,385	58,227,983
Had requestable medical charts	206,478,385	0	206,478,385	0	206,478,385	0	206,478,385	0
Met demographic requirements (sex, race, and Hispanic origin)	206,384,134	94,251	206,384,134	94,251	206,384,134	94,251	206,384,134	94,251
Members with a valid index event								
Had any cohort-defining claim during the query period	988,722	205,395,412	591,251	205,792,883	4,801,320	201,582,814	591,251	205,792,883
Claim recorded during specified age range	982,896	5,826	590,190	1,061	4,664,071	137,249	590,190	1,061
Episode defining index claim recorded during the query period	913,313	69,583	588,960	1,230	4,329,414	334,657	588,960	1,230

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome				mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome			
	Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members with required pre-index history								
Had sufficient pre-index continuous enrollment	738,475	174,838	423,541	165,419	3,355,793	973,621	423,541	165,419
Met inclusion and exclusion criteria[1]	150,236	588,239	206,780	216,761	1,644,368	1,711,425	97,179	326,362
Evidence of all CGRP washout	N/A	70,681	N/A	53,673	N/A	102,747	N/A	55,951
Evidence of cancer	N/A	136,996	N/A	37,252	N/A	234,721	N/A	38,252
Evidence of comparator washout	N/A	71,183	N/A	52,127	N/A	109,067	N/A	217,029
Evidence of depression or intentional self-harm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of GI illness	N/A	158,252	N/A	64,867	N/A	319,493	N/A	66,853
Evidence of self-harm exclusion	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of serious GI exclusion	N/A	22,451	N/A	4,531	N/A	29,453	N/A	4,672
Evidence of traumatic brain injury	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
No evidence of two migraine diagnoses	N/A	492,645	N/A	100,673	N/A	1,580,365	N/A	140,944

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome				mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome			
	Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
No evidence of migraine diagnosis and neurology encounter	N/A	506,492	N/A	118,625	N/A	1,582,667	N/A	167,005
No evidence of migraine diagnosis and Triptan dispensing	N/A	540,606	N/A	146,871	N/A	1,416,655	N/A	139,494
Met event incidence criteria	150,236	0	206,780	0	1,644,368	0	97,179	0
Members with required post-index follow-up								
Had sufficient post-index continuous enrollment	150,236	0	206,780	0	1,644,368	0	97,179	0
Had minimum days' supply on index date	150,236	0	206,780	0	1,644,368	0	97,179	0
Had index episode of at least required length	150,236	0	206,780	0	1,644,368	0	97,179	0
Had index episode longer than blackout period	150,236	0	206,780	0	1,644,368	0	97,179	0
Did not have an event during blackout period	150,236	0	206,780	0	1,644,368	0	97,179	0
Final cohort								
Number of members	150,236	N/A	206,780	N/A	1,644,368	N/A	97,179	N/A
Number of episodes	150,236	N/A	206,780	N/A	1,644,368	N/A	97,179	N/A

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome				mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome			
	Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		Triptans Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome		mAb Exposure with Paralytic Ileus and Intestinal Obstruction without Hernia Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting comparative cohort eligibility requirements								
Excluded due to ineligibility for comparative analysis[2]	146,642	3,594	202,186	4,594	1,641,343	3,025	*****	*****
Included in comparative analysis	120,065	26,577	120,065	82,121	86,639	1,554,704	86,639	*****
Additional information								
Number of events in comparative analysis	332	N/A	560	N/A	193	N/A	412	N/A

[1]Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

[2]Excluded due to same day initiation of both exposure groups or prior initiation of other exposure group or due to prior initiation of other exposure group in a prior look or due to 0 days at risk or due to propensity score trimming or due to lack of treatment heterogeneity in stratum.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not applicable

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome			
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome		Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	304,727,196	N/A	304,727,196	N/A	304,727,196	N/A	304,727,196	N/A
Had required coverage type (medical and/or drug coverage)	228,672,454	76,054,742	228,672,454	76,054,742	228,672,454	76,054,742	228,672,454	76,054,742
Enrolled during specified age range	175,734,070	52,938,384	175,734,070	52,938,384	175,734,070	52,938,384	175,734,070	52,938,384
Had requestable medical charts	175,734,070	0	175,734,070	0	175,734,070	0	175,734,070	0
Met demographic requirements (sex, race, and Hispanic origin)	175,647,511	86,559	175,647,511	86,559	175,647,511	86,559	175,647,511	86,559
Members with a valid index event								
Had any cohort-defining claim during the query period	693,001	174,954,510	826,547	174,820,964	693,001	174,954,510	3,824,569	171,822,942
Claim recorded during specified age range	691,890	1,111	823,186	3,361	691,890	1,111	3,751,343	73,226
Episode defining index claim recorded during the query period	691,244	646	750,061	73,125	691,244	646	3,402,812	348,531

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome			
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome		Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members with required pre-index history								
Had sufficient pre-index continuous enrollment	537,245	153,999	599,986	150,075	537,245	153,999	2,621,479	781,333
Met inclusion and exclusion criteria[1]	222,938	314,307	125,112	474,874	136,774	400,471	1,324,385	1,297,094
Evidence of all CGRP washout	N/A	98,574	N/A	68,691	N/A	100,412	N/A	104,444
Evidence of cancer	N/A	51,764	N/A	111,889	N/A	52,386	N/A	186,742
Evidence of comparator washout	N/A	58,202	N/A	69,182	N/A	206,301	N/A	110,547
Evidence of depression or intentional self-harm	N/A	1,411	N/A	1,122	N/A	1,434	N/A	9,011
Evidence of GI illness	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of self-harm exclusion	N/A	1,364	N/A	2,228	N/A	1,388	N/A	7,143
Evidence of serious GI exclusion	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of traumatic brain injury	N/A	18,756	N/A	32,473	N/A	18,967	N/A	68,329
No evidence of two migraine diagnoses	N/A	197,612	N/A	400,680	N/A	237,800	N/A	1,207,325
No evidence of migraine diagnosis and neurology encounter	N/A	216,895	N/A	412,906	N/A	270,976	N/A	1,206,672

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome			
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome		Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
No evidence of migraine diagnosis and Triptan dispensing	N/A	246,367	N/A	438,113	N/A	234,425	N/A	1,111,594
Met event incidence criteria	222,938	0	125,112	0	136,774	0	1,324,385	0
Members with required post-index follow-up								
Had sufficient post-index continuous enrollment	222,938	0	125,112	0	136,774	0	1,324,385	0
Had minimum days' supply on index date	222,938	0	125,112	0	136,774	0	1,324,385	0
Had index episode of at least required length	222,938	0	125,112	0	136,774	0	1,324,385	0
Had index episode longer than blackout period	222,938	0	125,112	0	136,774	0	1,324,385	0
Did not have an event during blackout period	222,938	0	125,112	0	136,774	0	1,324,385	0
Final cohort								
Number of members	222,938	N/A	125,112	N/A	136,774	N/A	1,324,385	N/A
Number of episodes	222,938	N/A	125,112	N/A	136,774	N/A	1,324,385	N/A

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome				Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome			
	Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome		Small Molecule CGRP Antagonists Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting comparative cohort eligibility requirements								
Excluded due to ineligibility for comparative analysis[2]	220,408	2,530	123,545	1,567	121,481	15,293	1,322,232	2,153
Included in comparative analysis	99,525	120,883	99,525	24,020	121,262	219	121,262	1,200,970
Additional information								
Number of events in comparative analysis	27	N/A	15	N/A	33	N/A	23	N/A

[1]Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

[2]Excluded due to same day initiation of both exposure groups or prior initiation of other exposure group or due to prior initiation of other exposure group in a prior look or due to 0 days at risk or due to propensity score trimming or due to lack of treatment heterogeneity in stratum.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not applicable

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome				mAb-Triptans Exposure with Intentional Self-Harm Outcome			
	Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome		mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome		mAb Exposure with Intentional Self-Harm Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting enrollment and demographic requirements								
Enrolled at any point during the query period	355,102,488	N/A	355,102,488	N/A	355,102,488	N/A	355,102,488	N/A
Had required coverage type (medical and/or drug coverage)	264,706,368	90,396,120	264,706,368	90,396,120	264,706,368	90,396,120	264,706,368	90,396,120
Enrolled during specified age range	206,478,385	58,227,983	206,478,385	58,227,983	206,478,385	58,227,983	206,478,385	58,227,983
Had requestable medical charts	206,478,385	0	206,478,385	0	206,478,385	0	206,478,385	0
Met demographic requirements (sex, race, and Hispanic origin)	206,384,134	94,251	206,384,134	94,251	206,384,134	94,251	206,384,134	94,251
Members with a valid index event								
Had any cohort-defining claim during the query period	988,722	205,395,412	591,251	205,792,883	4,801,320	201,582,814	591,251	205,792,883
Claim recorded during specified age range	982,896	5,826	590,190	1,061	4,664,071	137,249	590,190	1,061
Episode defining index claim recorded during the query period	913,313	69,583	588,960	1,230	4,329,414	334,657	588,960	1,230

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome				mAb-Triptans Exposure with Intentional Self-Harm Outcome			
	Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome		mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome		mAb Exposure with Intentional Self-Harm Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members with required pre-index history								
Had sufficient pre-index continuous enrollment	738,475	174,838	423,541	165,419	3,355,793	973,621	423,541	165,419
Met inclusion and exclusion criteria[1]	171,745	566,730	232,757	190,784	1,755,299	1,600,494	110,836	312,705
Evidence of all CGRP washout	N/A	69,316	N/A	52,833	N/A	99,341	N/A	55,454
Evidence of cancer	N/A	135,857	N/A	36,748	N/A	229,437	N/A	37,944
Evidence of comparator washout	N/A	69,803	N/A	51,474	N/A	105,516	N/A	216,209
Evidence of depression or intentional self-harm	N/A	1,612	N/A	1,677	N/A	12,813	N/A	1,763
Evidence of GI illness	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of self-harm exclusion	N/A	3,004	N/A	1,380	N/A	9,893	N/A	1,451
Evidence of serious GI exclusion	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Evidence of traumatic brain injury	N/A	40,965	N/A	15,133	N/A	88,237	N/A	15,602
No evidence of two migraine diagnoses	N/A	486,821	N/A	94,055	N/A	1,504,739	N/A	137,885
No evidence of migraine diagnosis and neurology encounter	N/A	499,450	N/A	109,661	N/A	1,501,425	N/A	163,088

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome				mAb-Triptans Exposure with Intentional Self-Harm Outcome			
	Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome		mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome		mAb Exposure with Intentional Self-Harm Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
No evidence of migraine diagnosis and Triptan dispensing	N/A	526,751	N/A	134,912	N/A	1,395,870	N/A	125,837
Met event incidence criteria	171,745	0	232,757	0	1,755,299	0	110,836	0
Members with required post-index follow-up								
Had sufficient post-index continuous enrollment	171,745	0	232,757	0	1,755,299	0	110,836	0
Had minimum days' supply on index date	171,745	0	232,757	0	1,755,299	0	110,836	0
Had index episode of at least required length	171,745	0	232,757	0	1,755,299	0	110,836	0
Had index episode longer than blackout period	171,745	0	232,757	0	1,755,299	0	110,836	0
Did not have an event during blackout period	171,745	0	232,757	0	1,755,299	0	110,836	0
Final cohort								
Number of members	171,745	N/A	232,757	N/A	1,755,299	N/A	110,836	N/A
Number of episodes	171,745	N/A	232,757	N/A	1,755,299	N/A	110,836	N/A

Table 22. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025 (Continued)

	mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome				mAb-Triptans Exposure with Intentional Self-Harm Outcome			
	Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome		mAb Exposure with Intentional Self-Harm Outcome		Triptans Exposure with Intentional Self-Harm Outcome		mAb Exposure with Intentional Self-Harm Outcome	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
Members meeting comparative cohort eligibility requirements								
Excluded due to ineligibility for comparative analysis[2]	167,172	4,573	226,925	5,832	1,751,563	3,736	*****	*****
Included in comparative analysis	136,148	31,024	136,148	90,777	97,928	1,653,635	97,928	*****
Additional information								
Number of events in comparative analysis	91	N/A	135	N/A	50	N/A	84	N/A

[1]Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

[2]Excluded due to same day initiation of both exposure groups or prior initiation of other exposure group or due to prior initiation of other exposure group in a prior look or due to 0 days at risk or due to propensity score trimming or due to lack of treatment heterogeneity in stratum.

*****Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not applicable

Figure 1. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

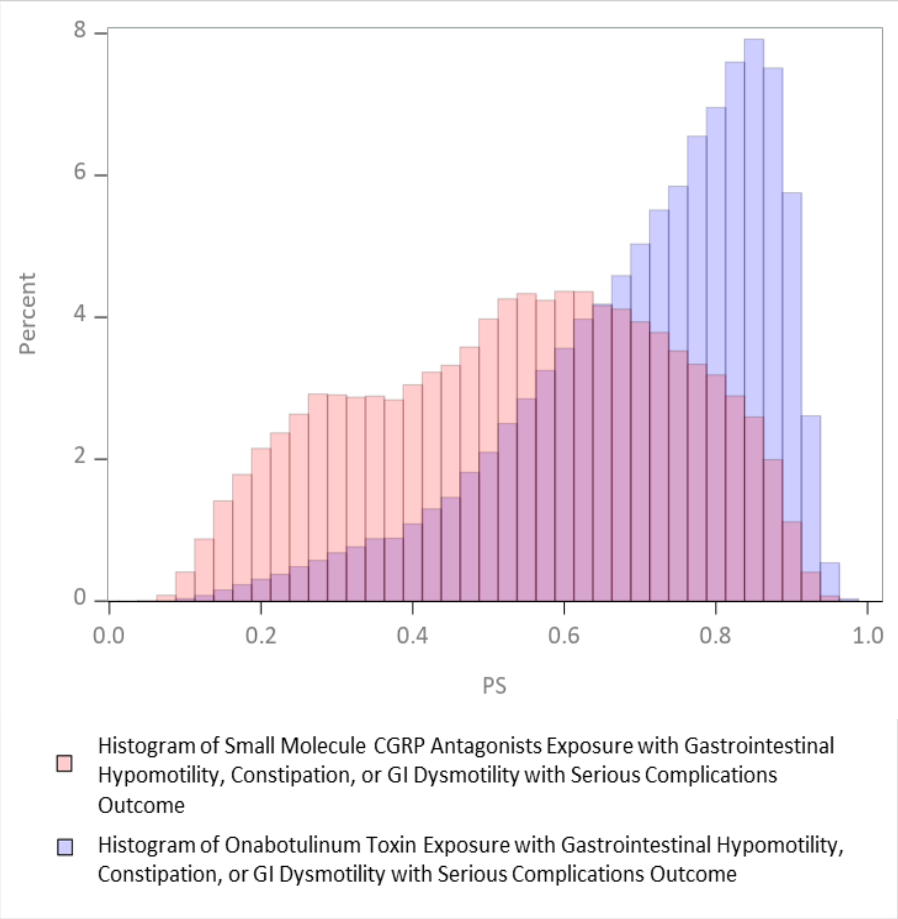


Figure 1. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

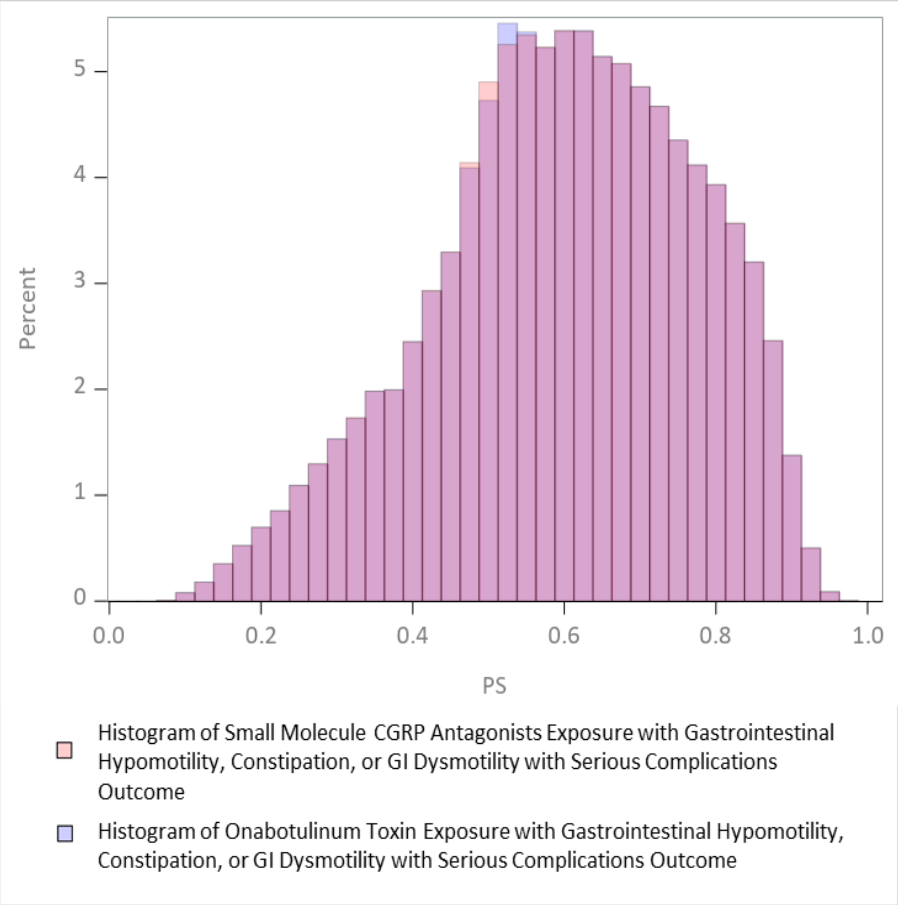


Figure 2. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

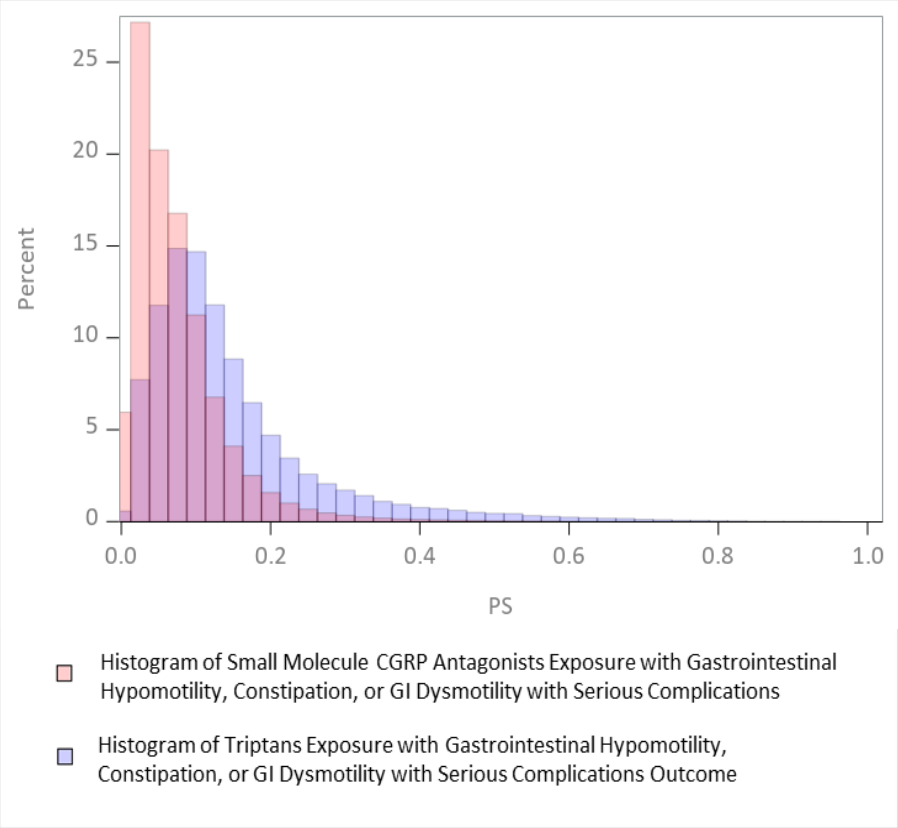


Figure 2. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

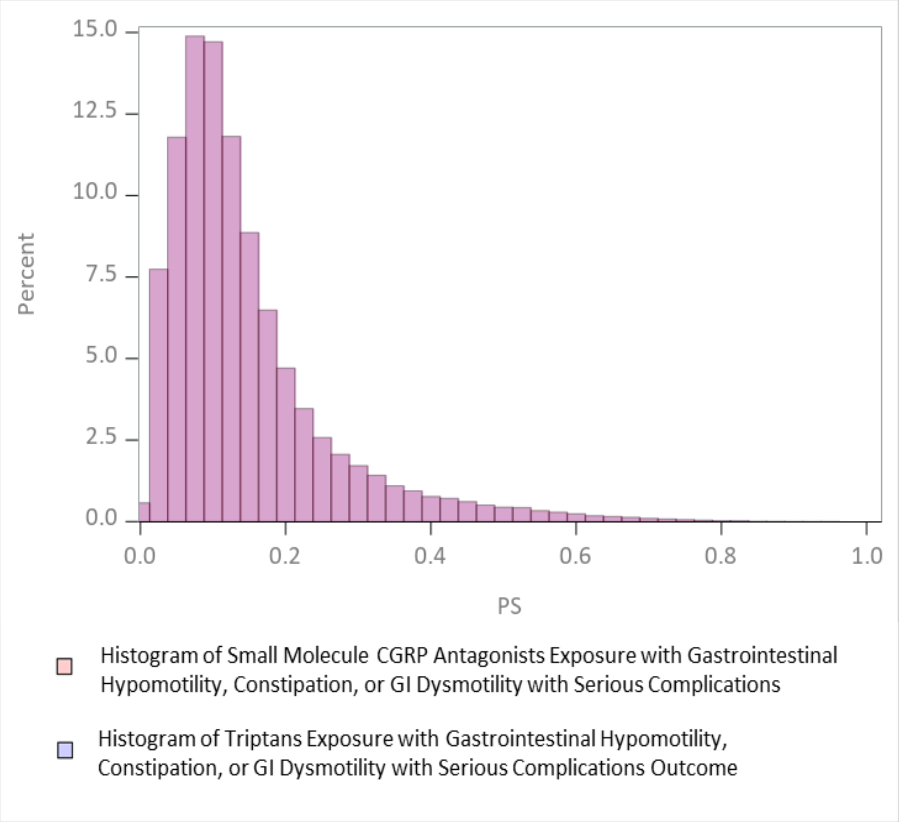


Figure 3. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

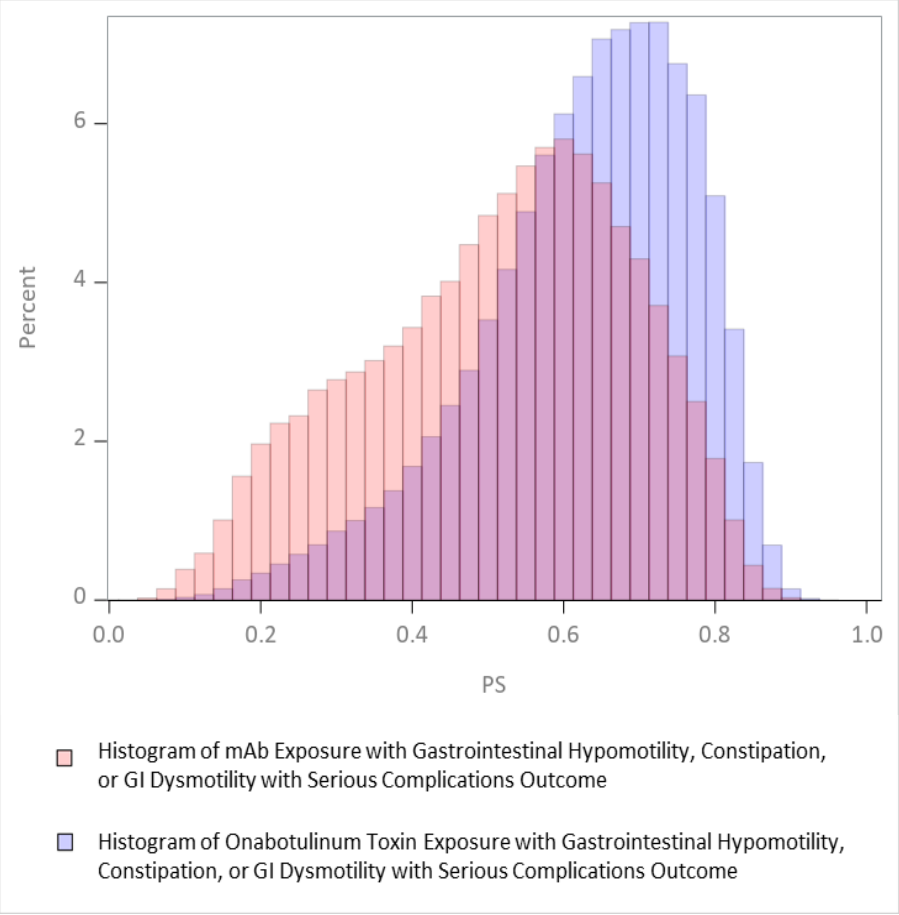


Figure 3. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

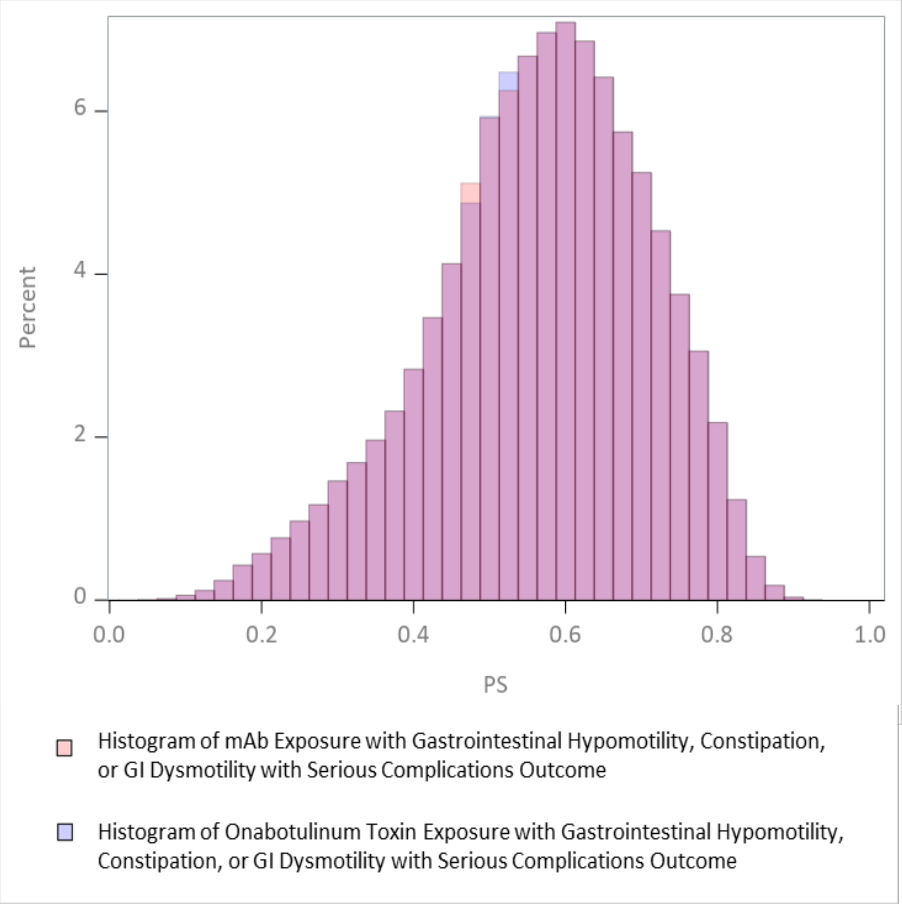


Figure 4. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

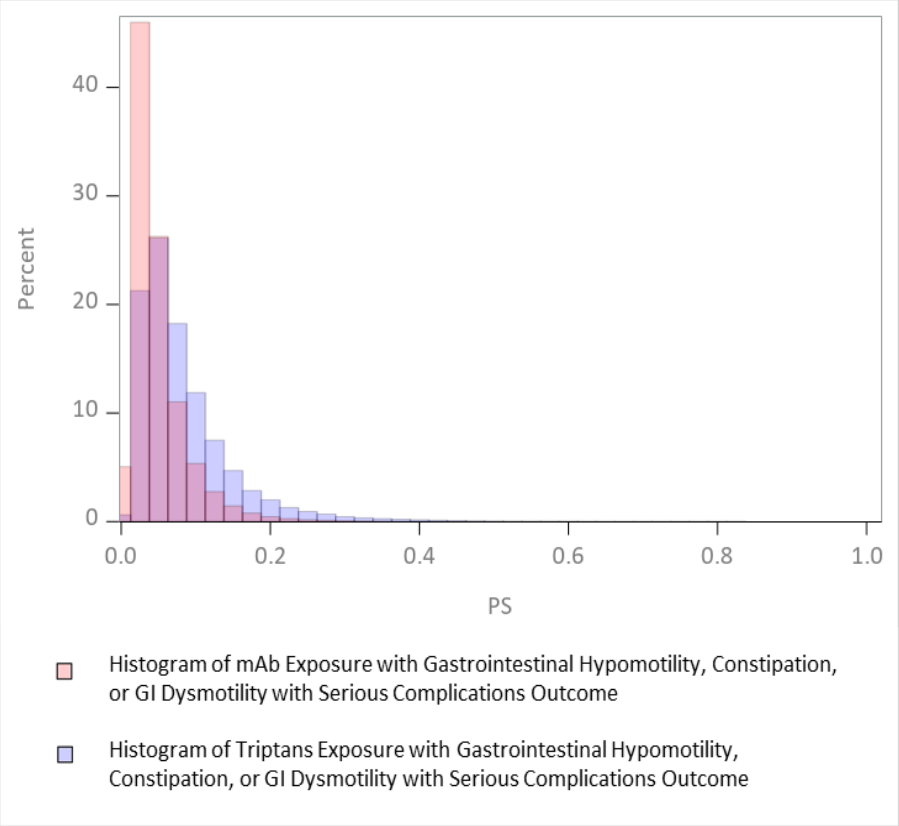


Figure 4. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

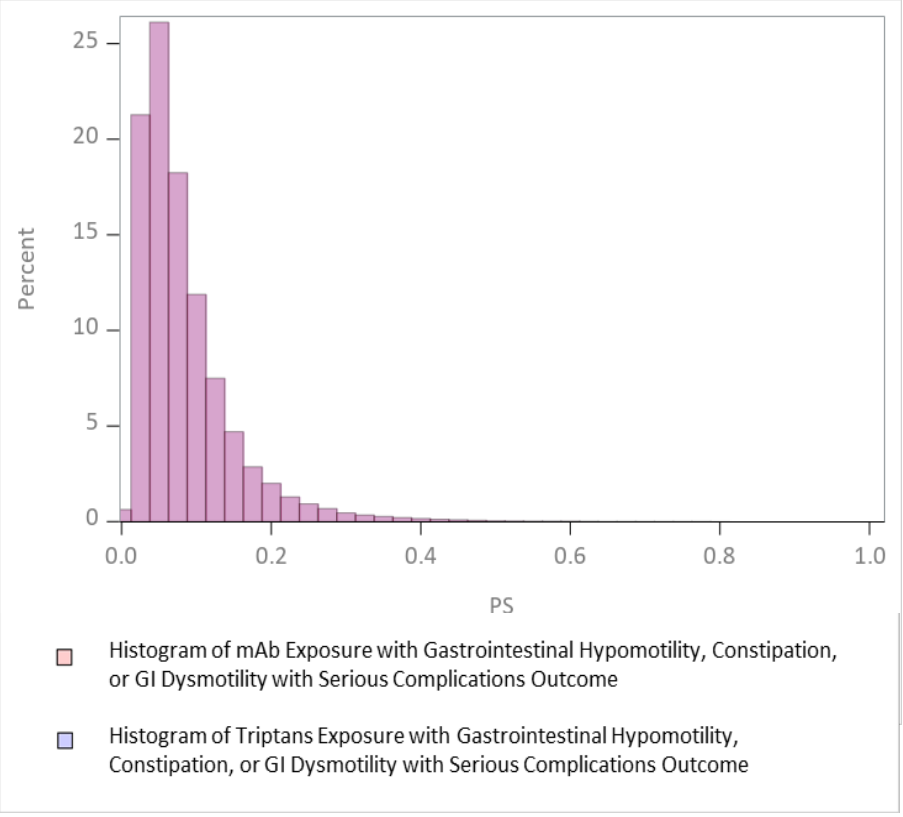


Figure 5. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

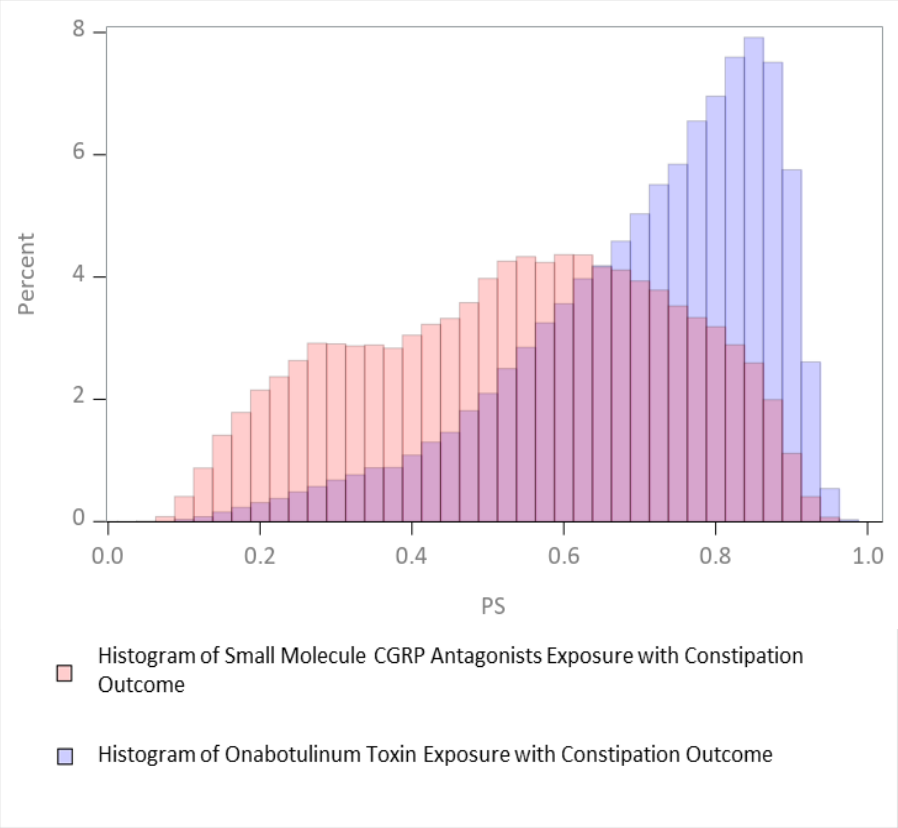


Figure 5. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

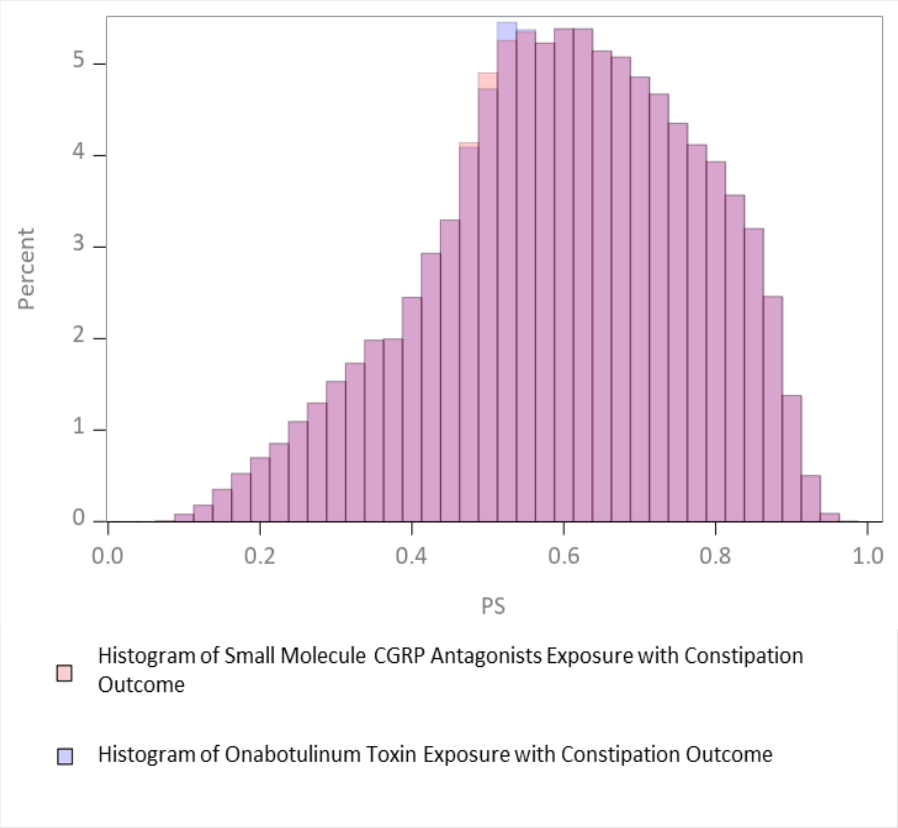


Figure 6. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

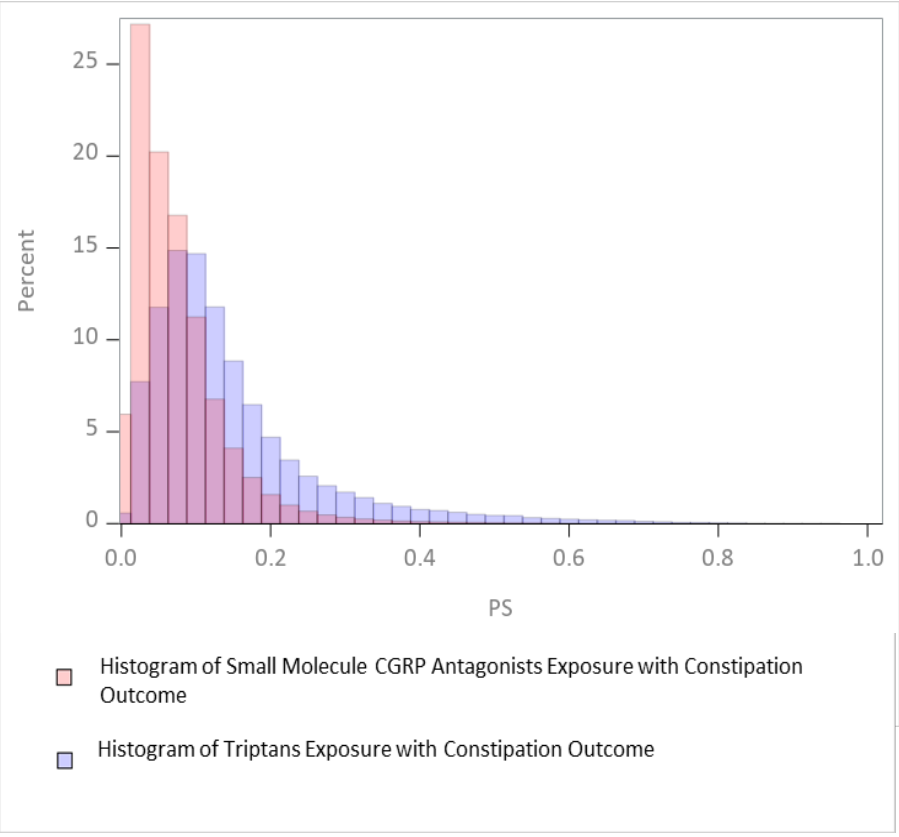


Figure 6. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

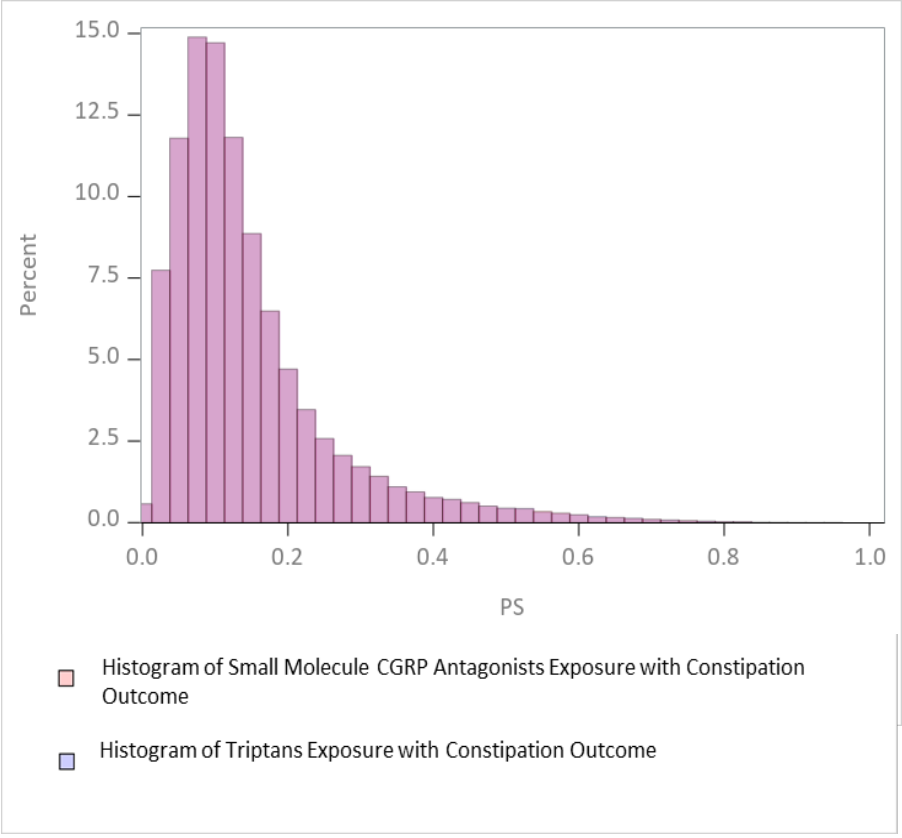


Figure 7. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

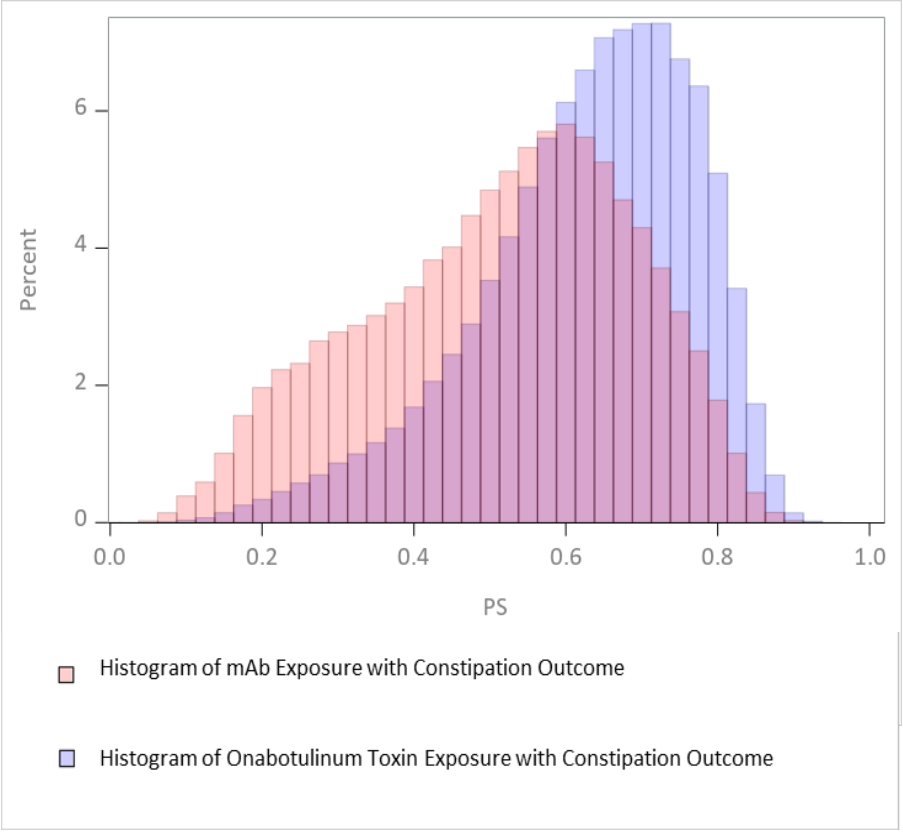


Figure 7. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

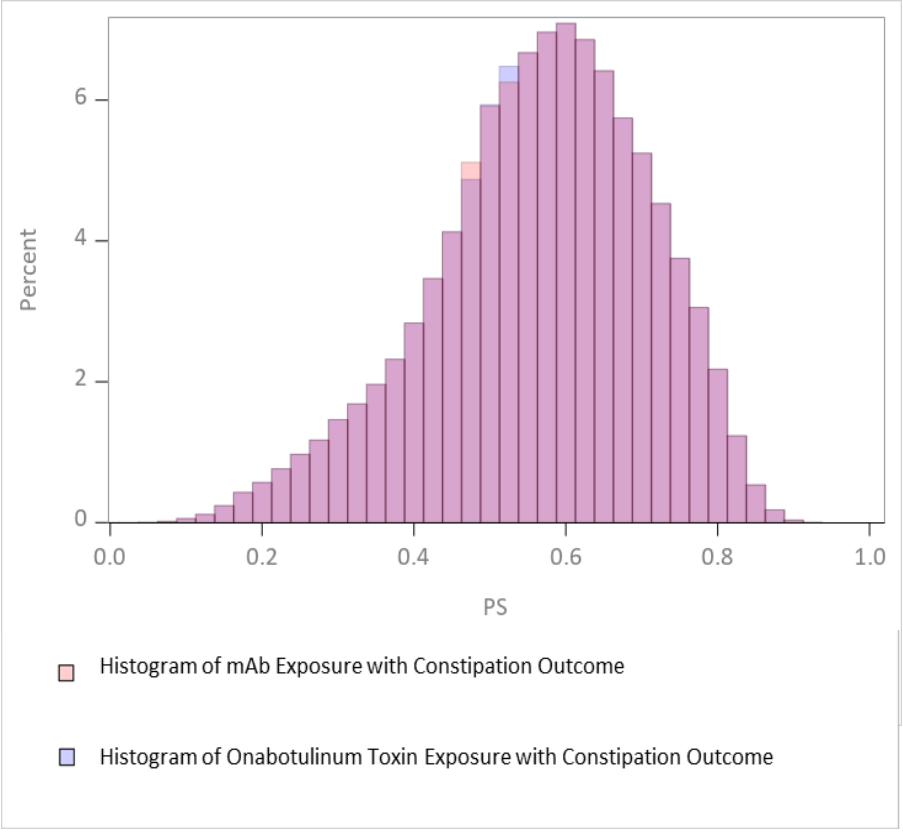


Figure 8. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

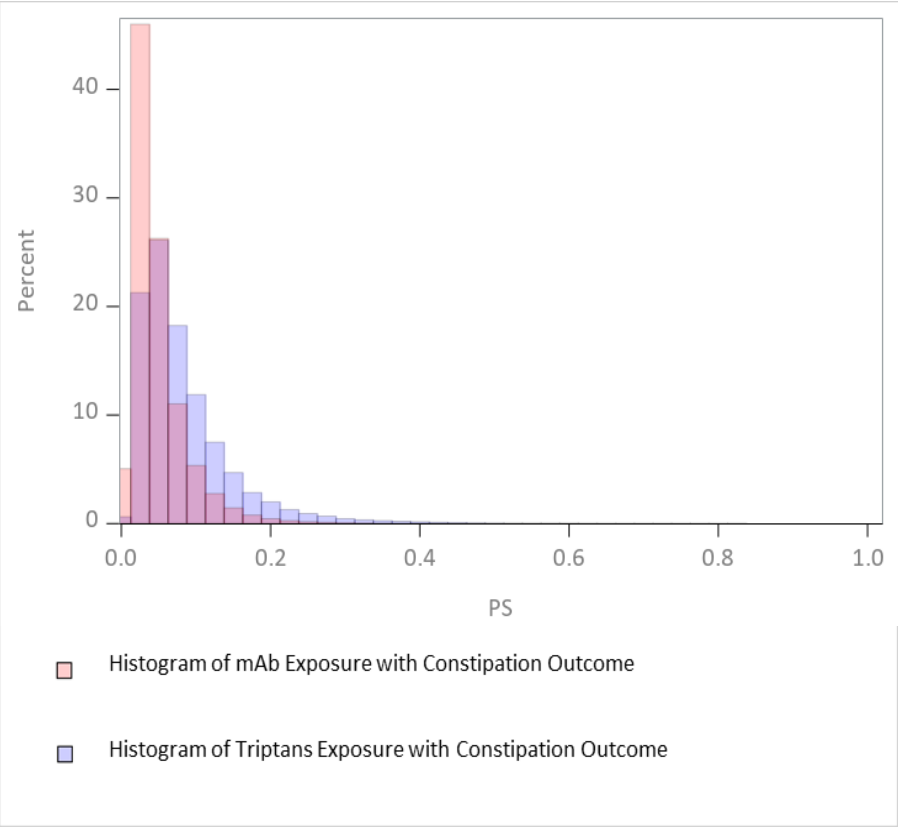


Figure 8. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

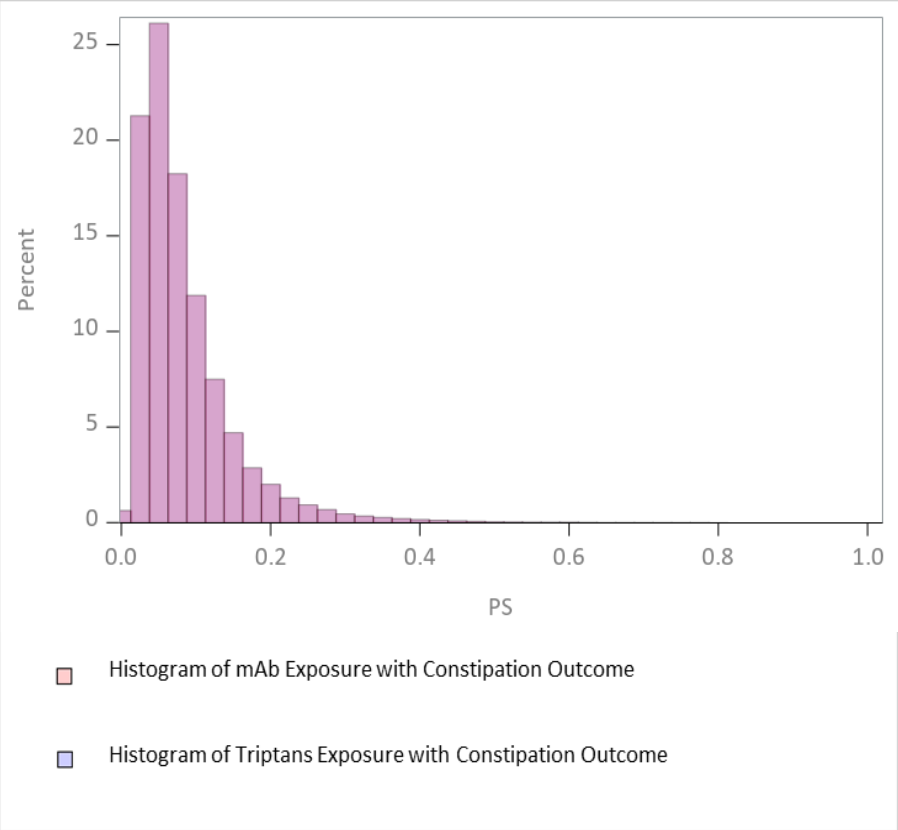


Figure 9. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

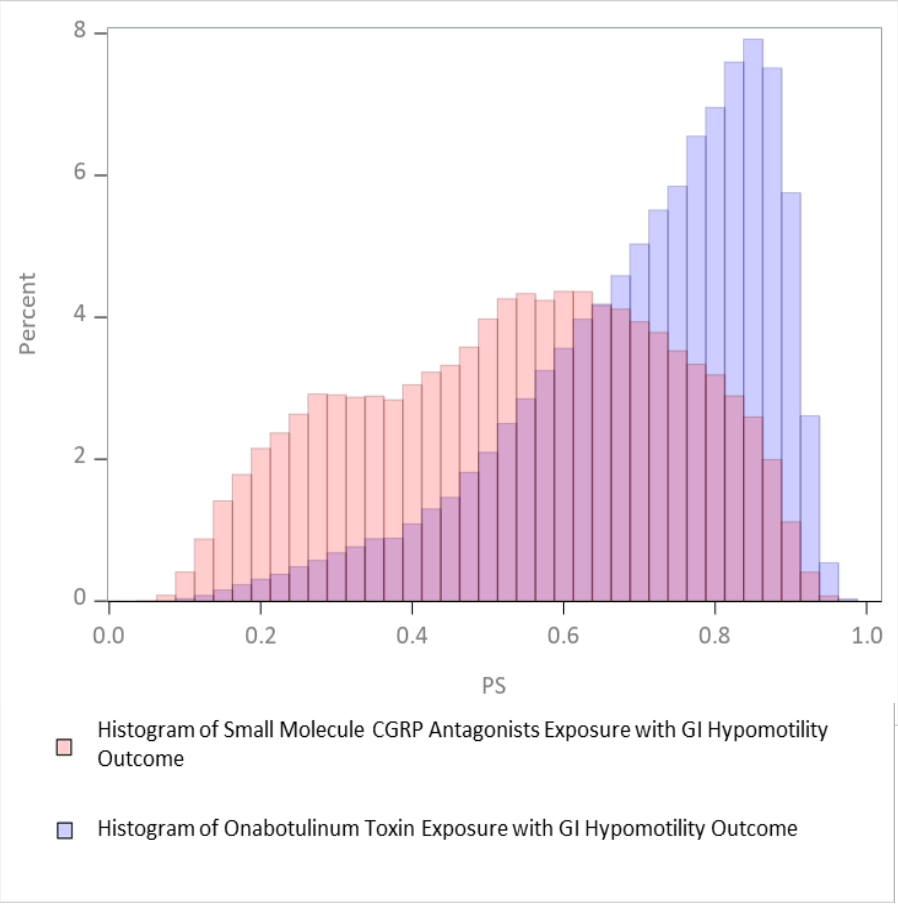


Figure 9. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

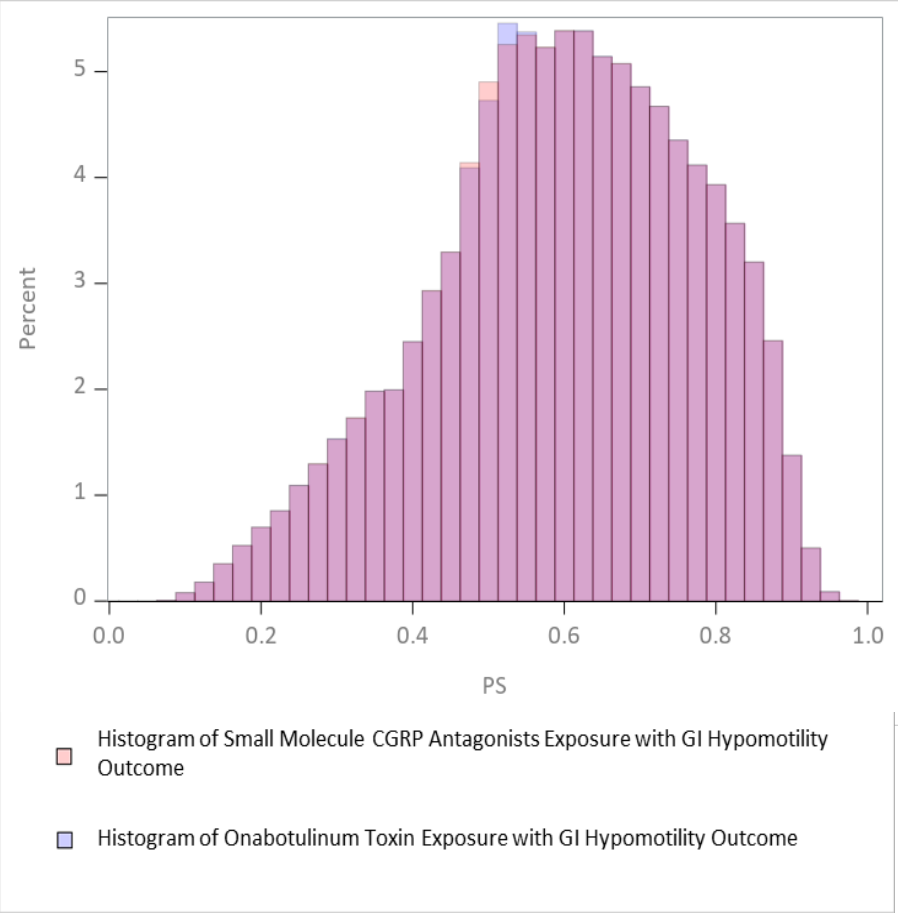


Figure 10. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

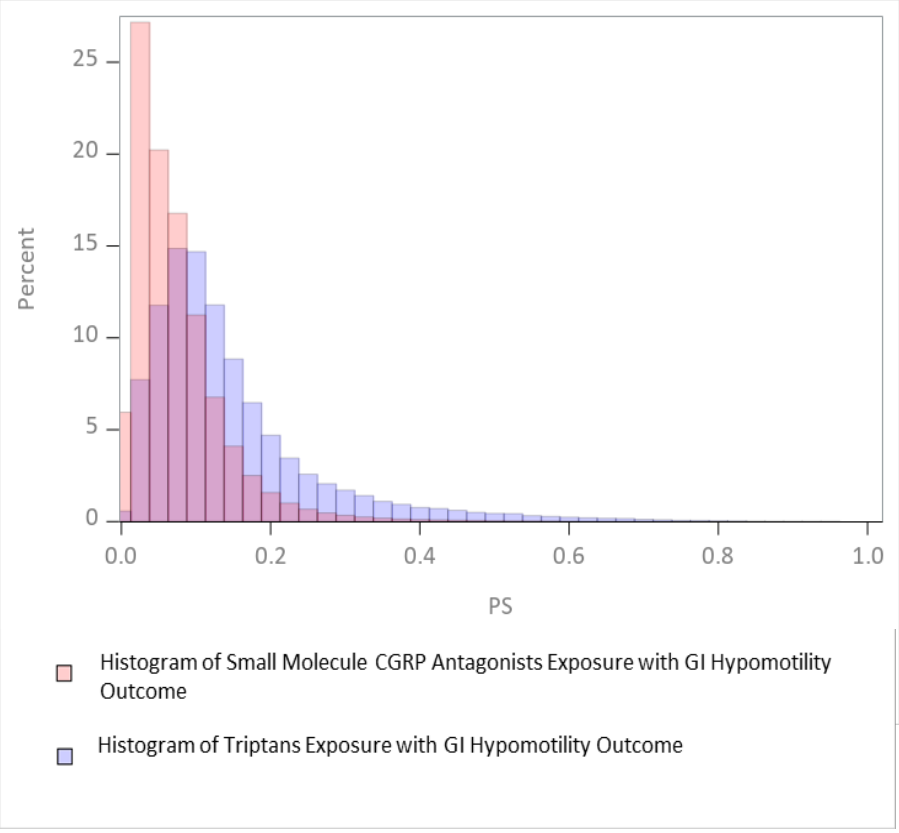


Figure 10. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

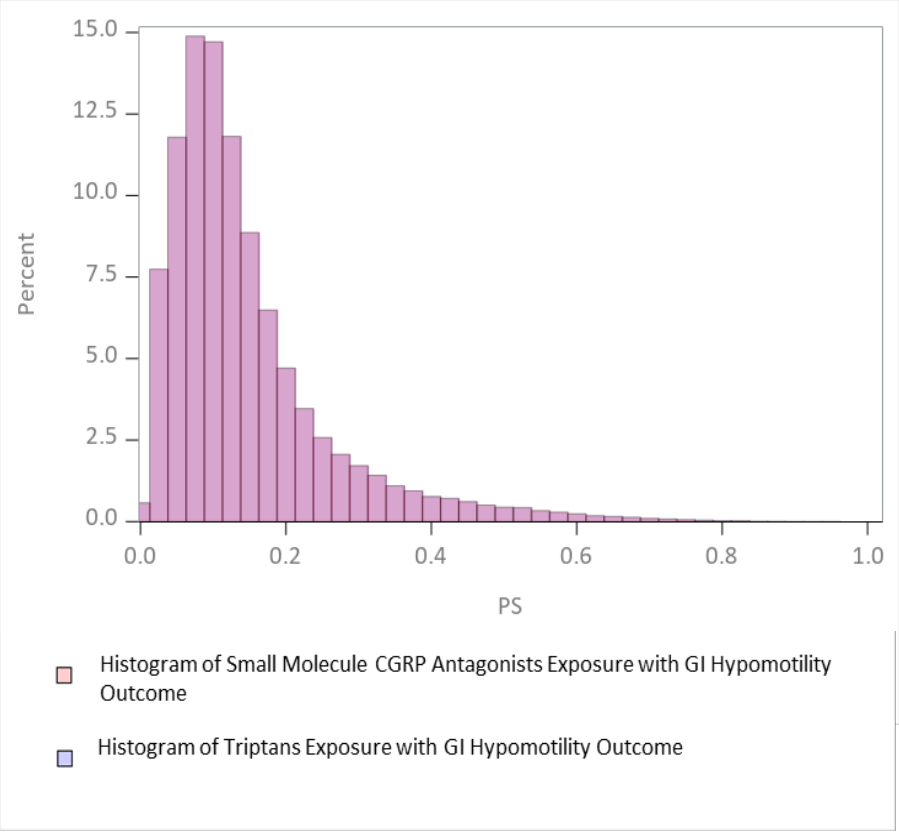


Figure 11. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

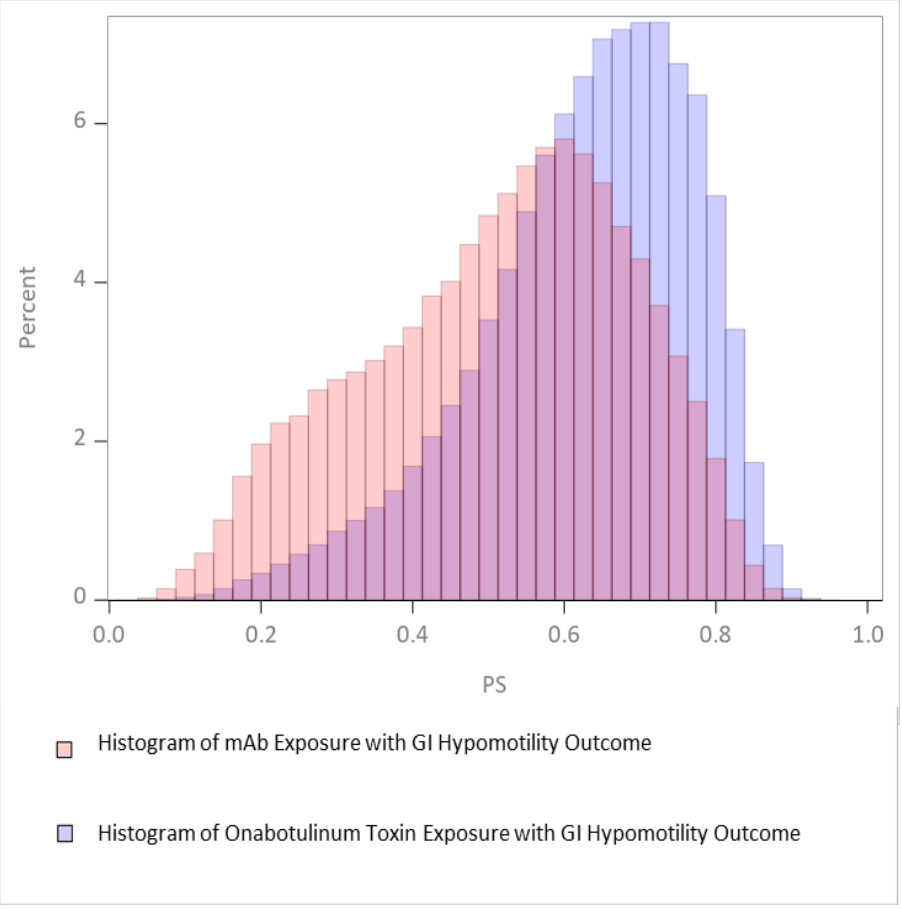


Figure 11. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

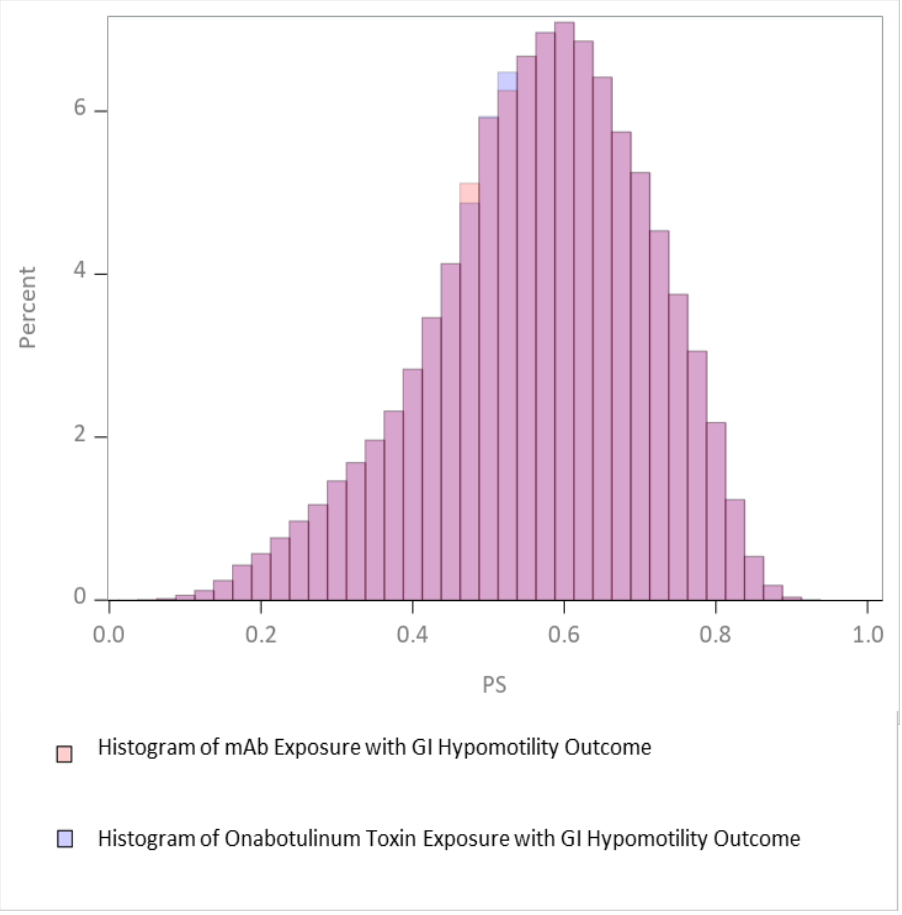


Figure 12. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

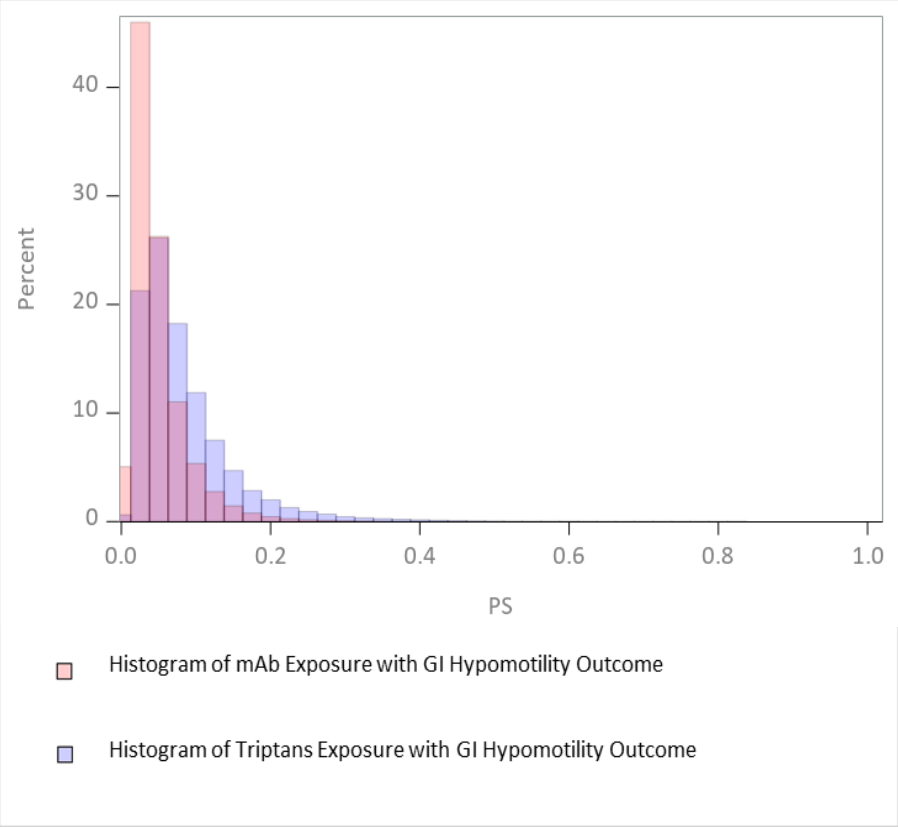


Figure 12. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

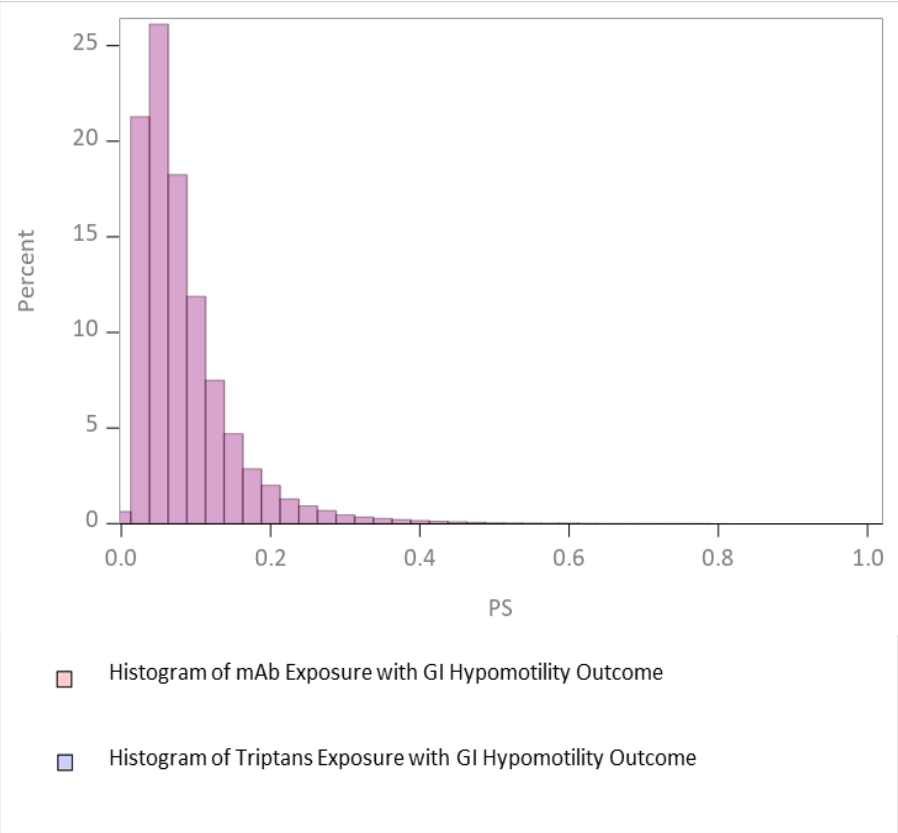


Figure 13. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

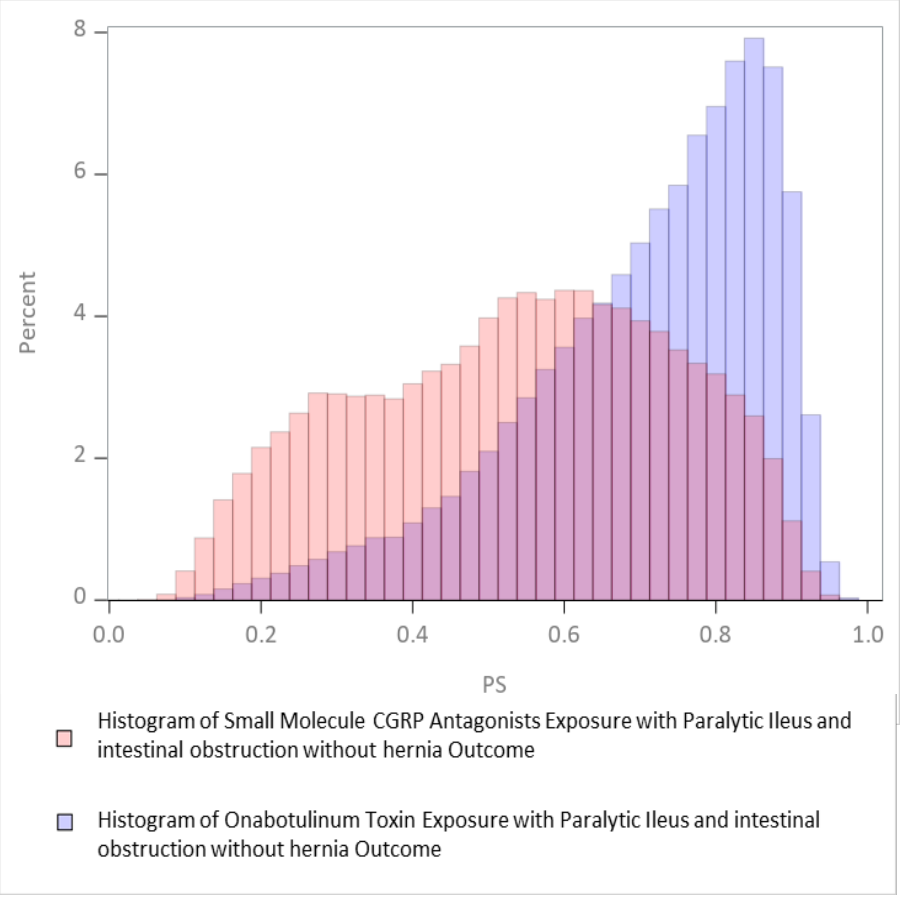


Figure 13. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

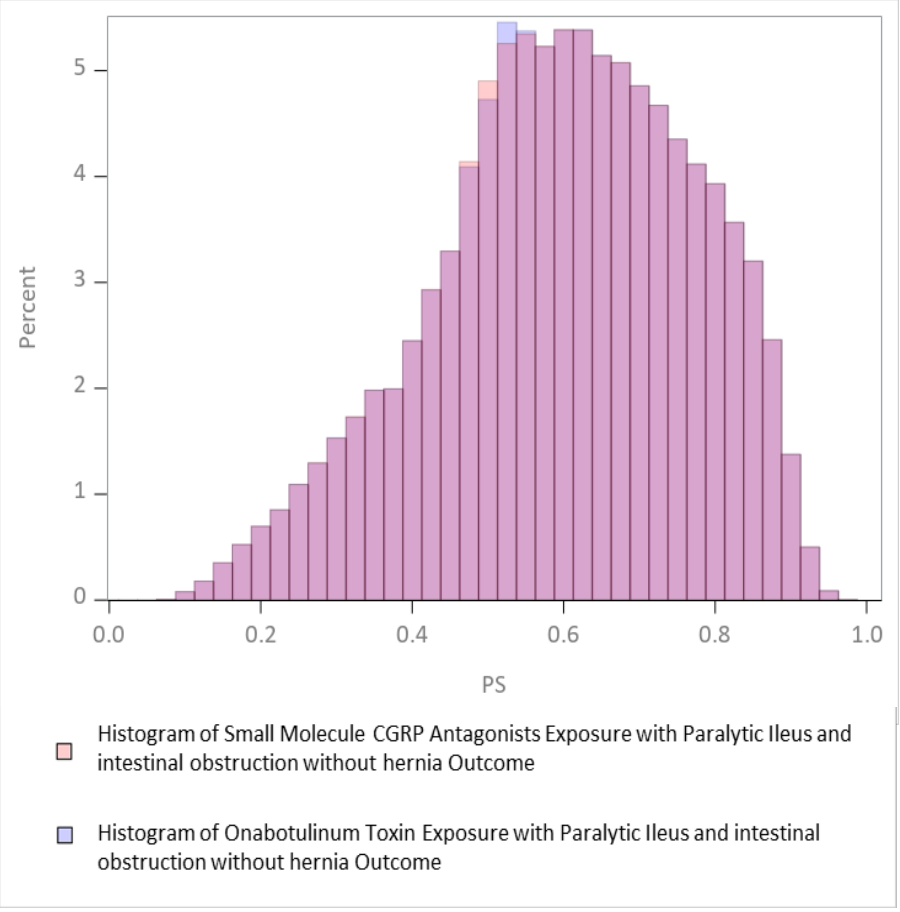


Figure 14. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

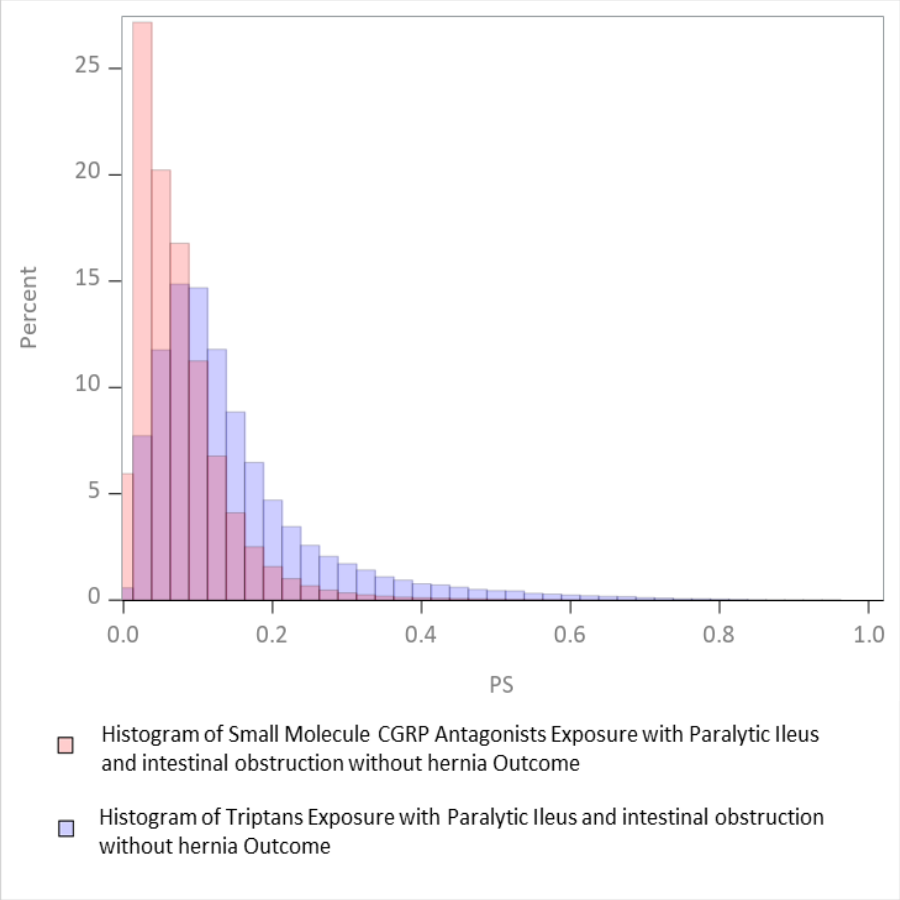


Figure 14. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

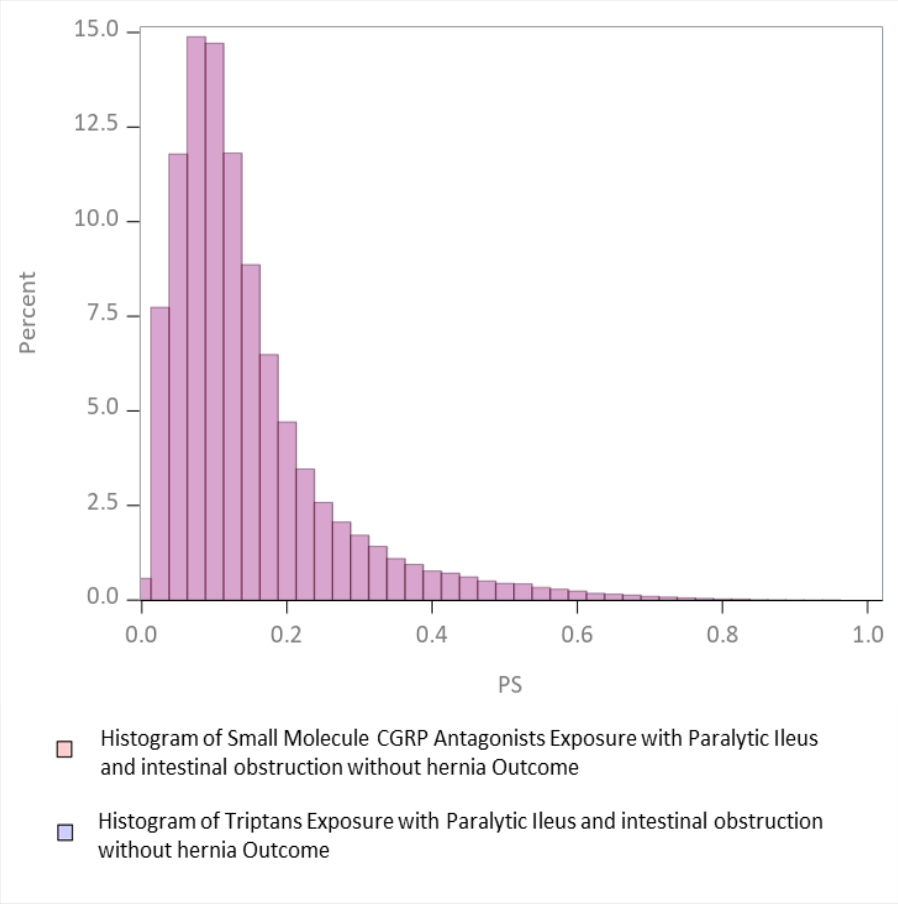


Figure 15. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

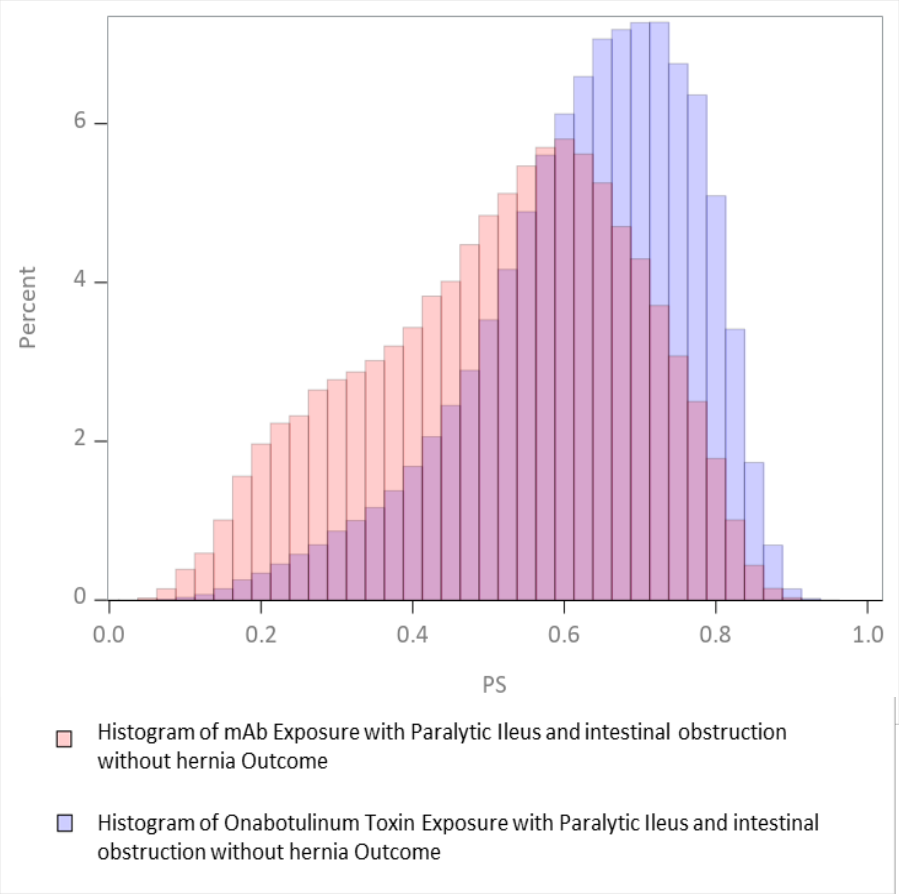


Figure 15. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

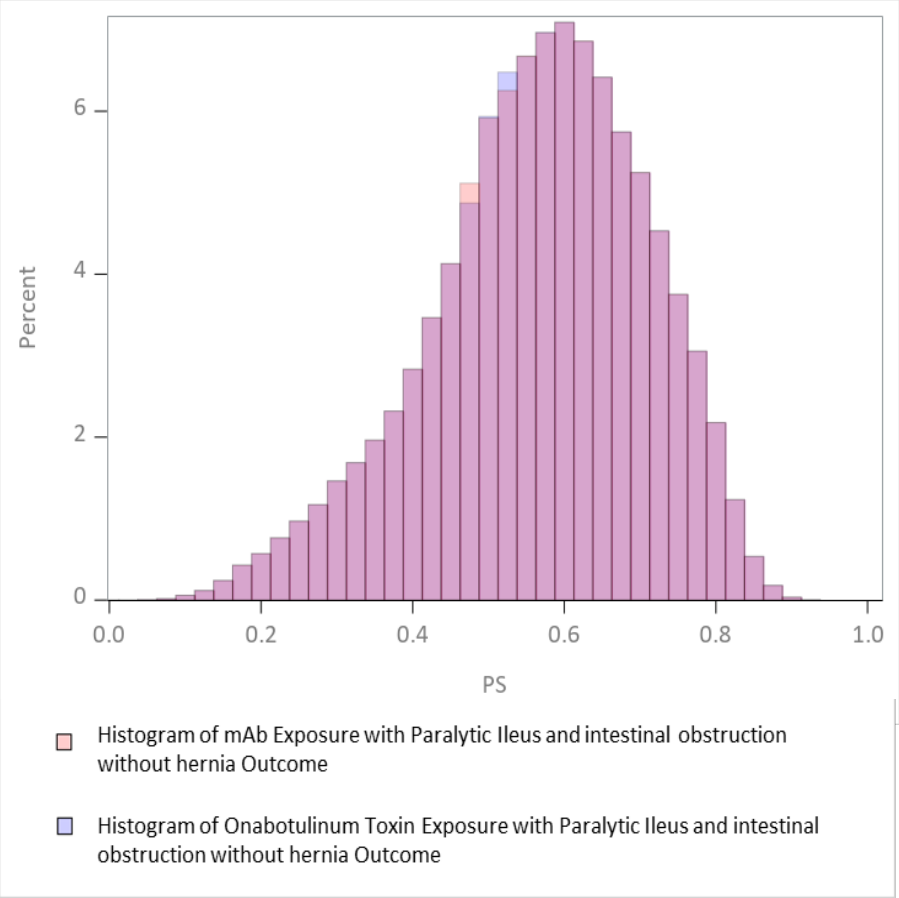


Figure 16. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

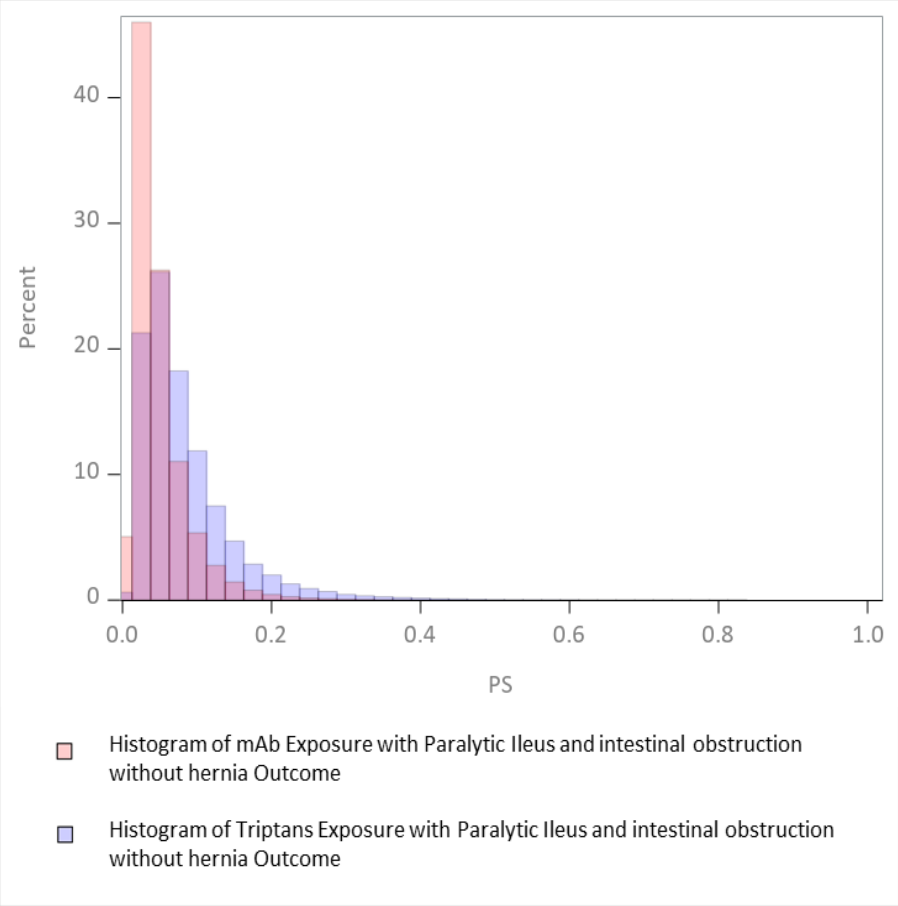


Figure 16. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

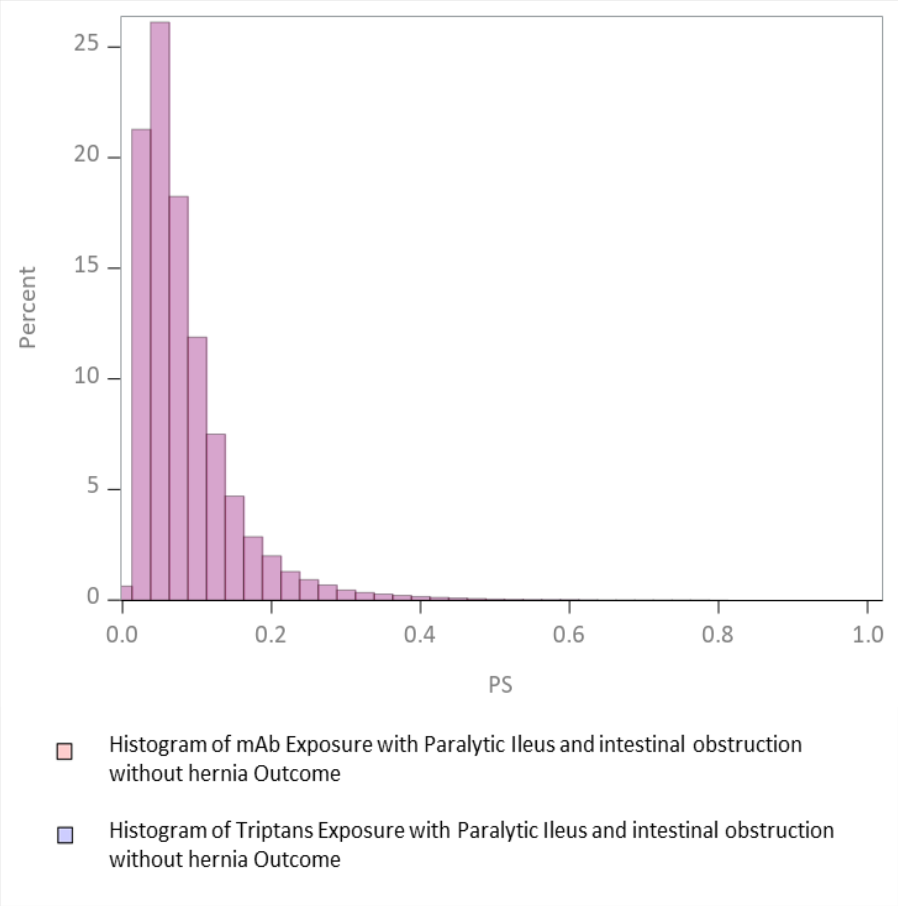


Figure 17. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

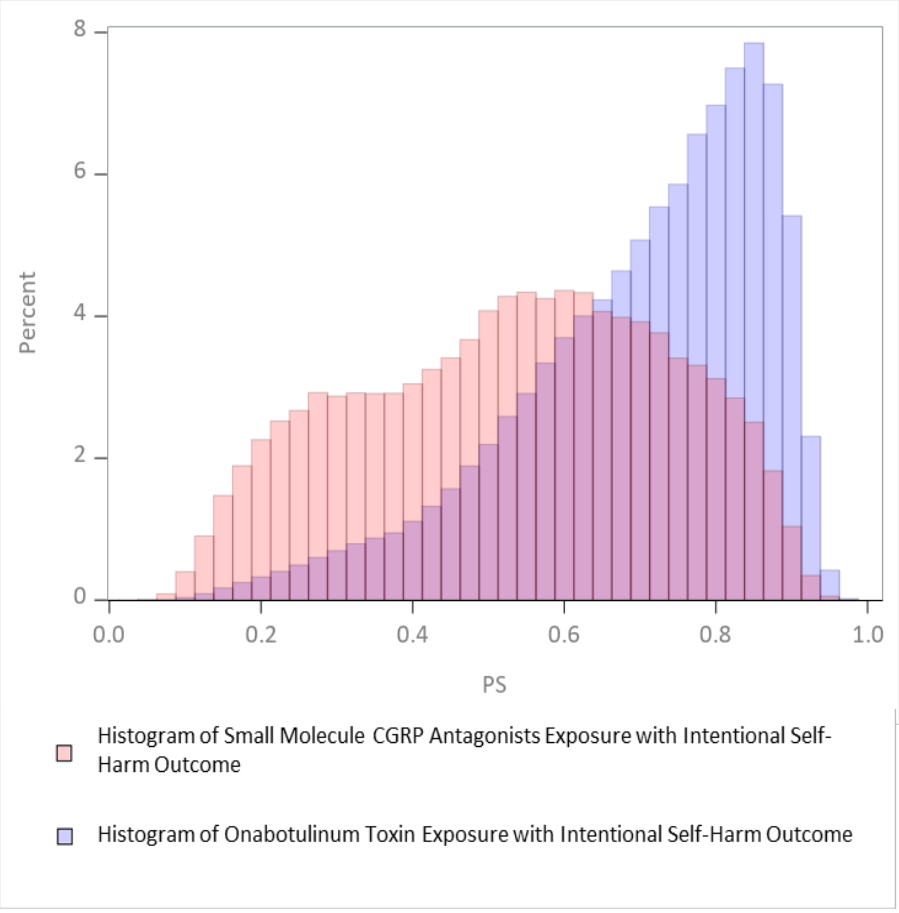


Figure 17. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

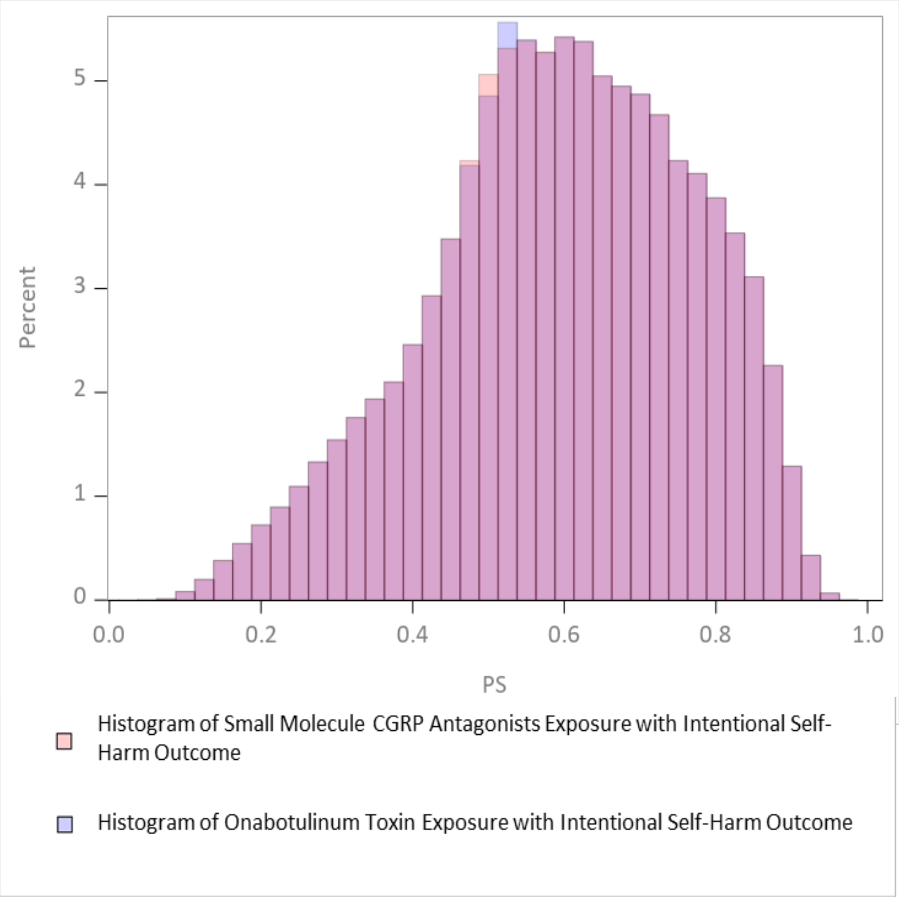


Figure 18. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

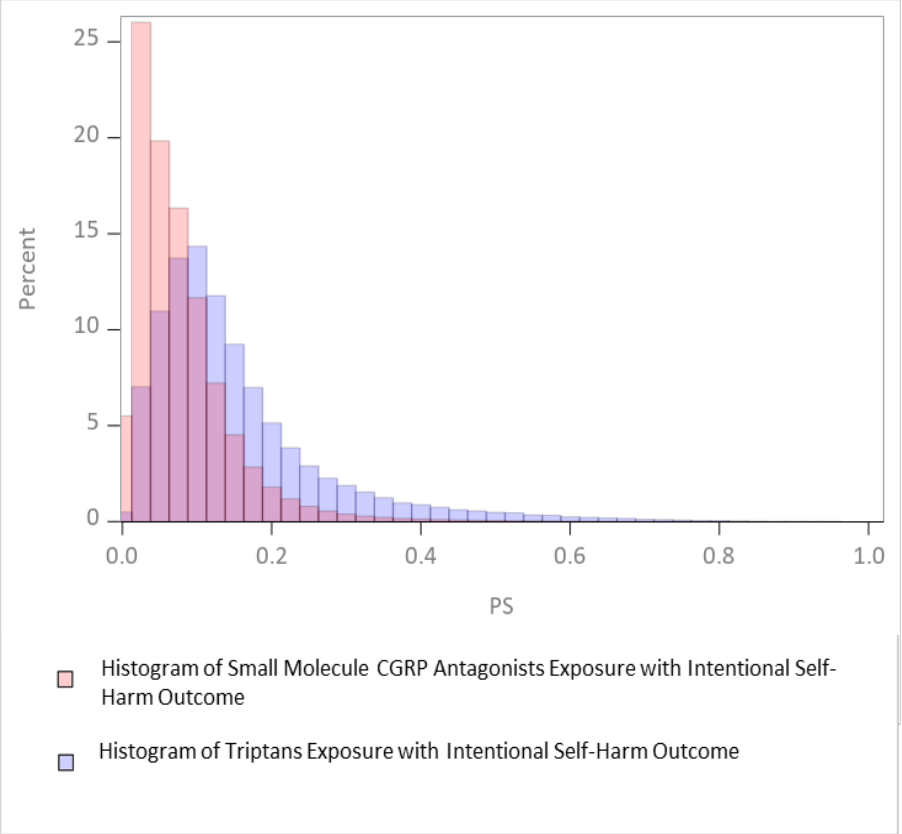


Figure 18. Histograms Depicting Propensity Score Distributions Before and After Adjustment for Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

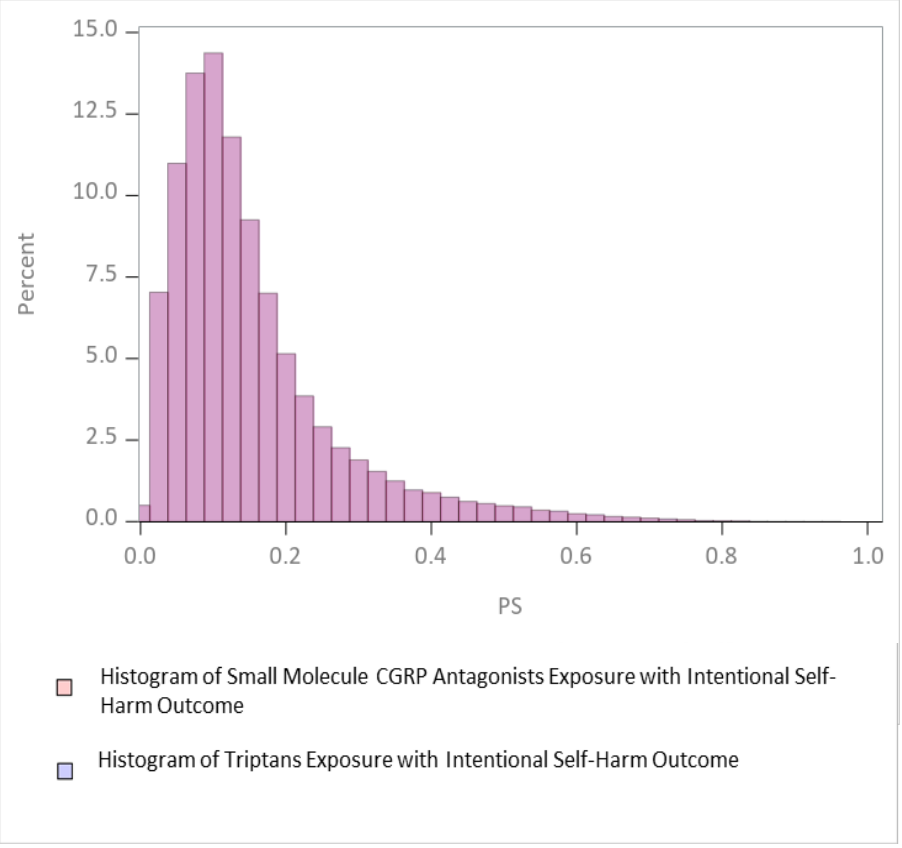


Figure 19. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

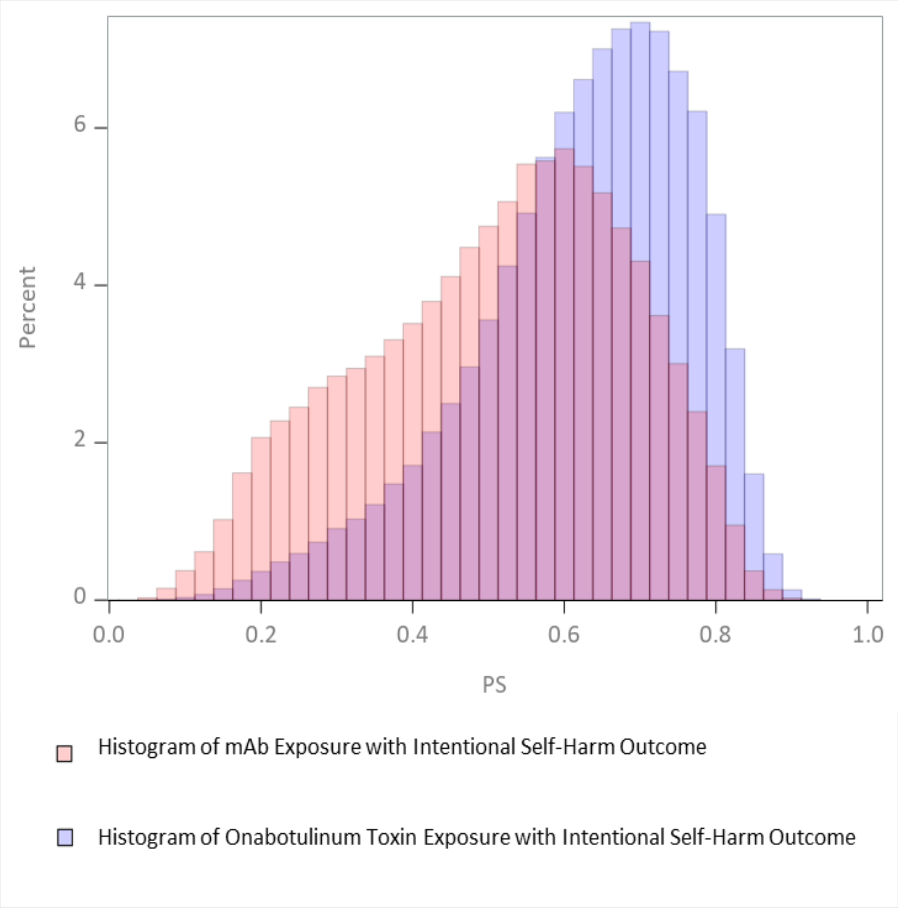


Figure 19. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

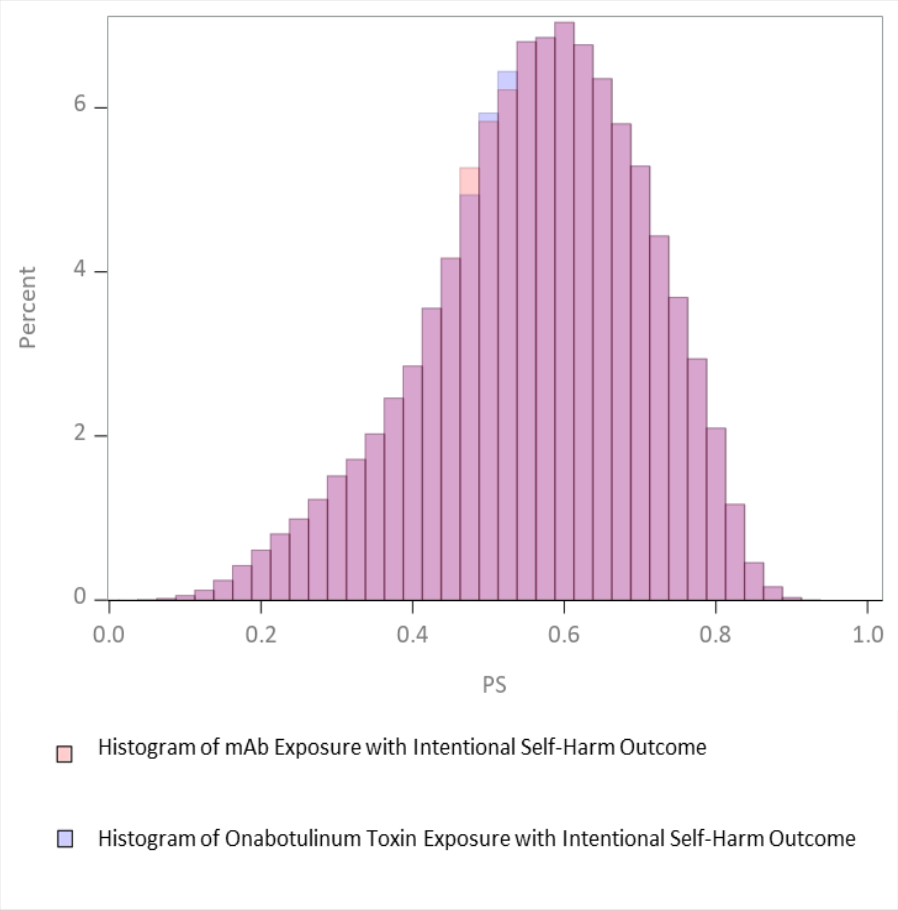


Figure 20. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Unadjusted Propensity Score Distribution

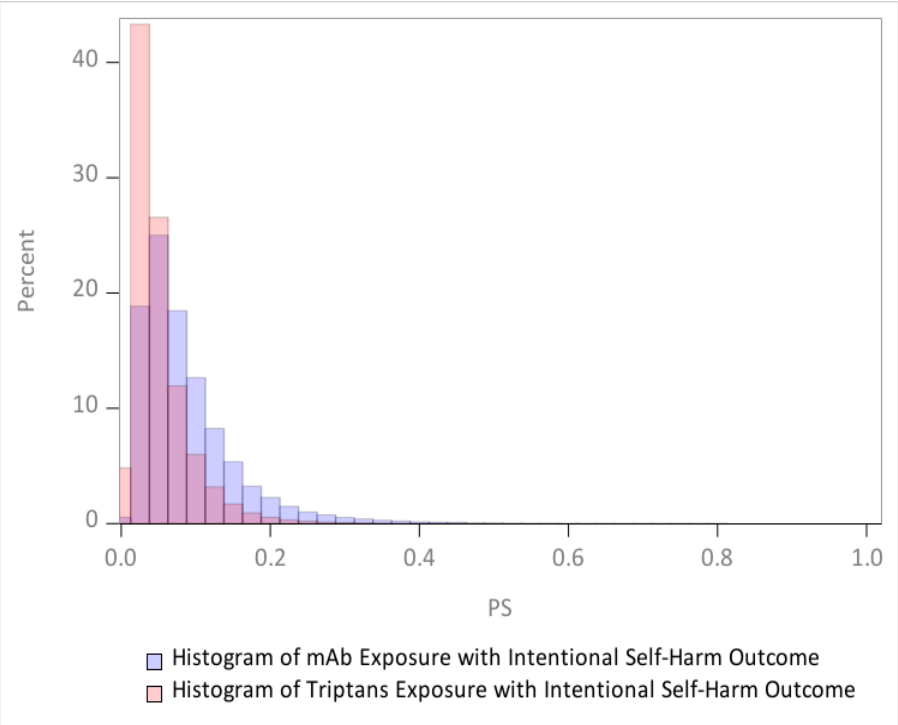


Figure 20. Histograms Depicting Propensity Score Distributions Before and After Adjustment for mAb-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Propensity Score Fixed Ratio 1:1 Adjusted Cohort, Matched Caliper = 0.05

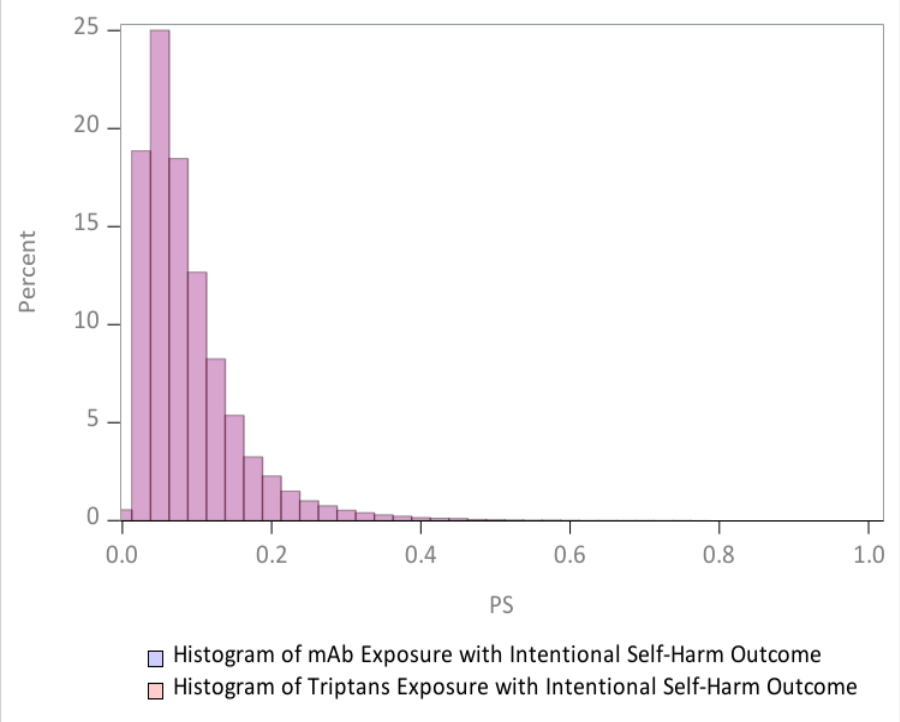


Figure 21a. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Site-Adjusted Analyses in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

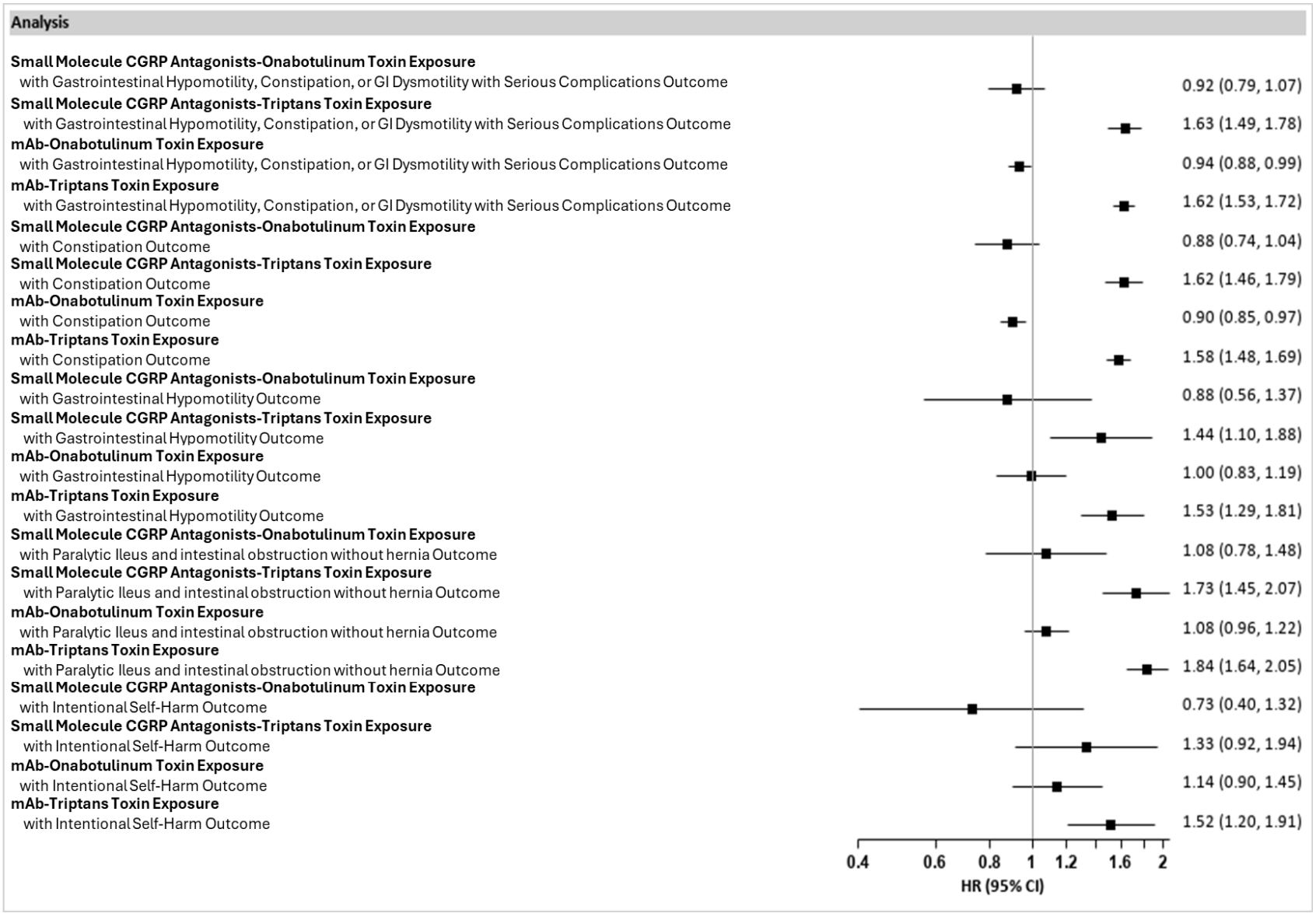
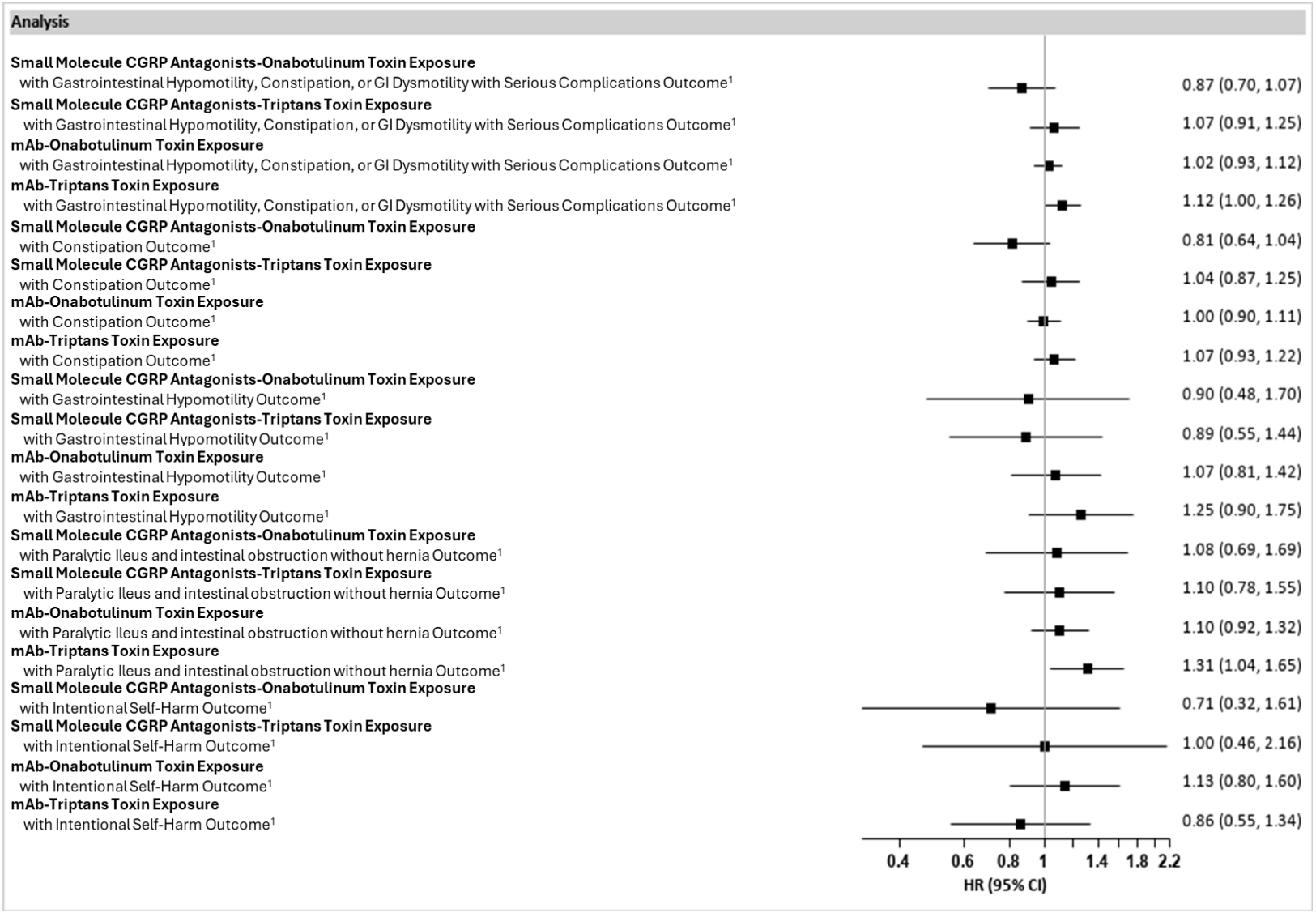
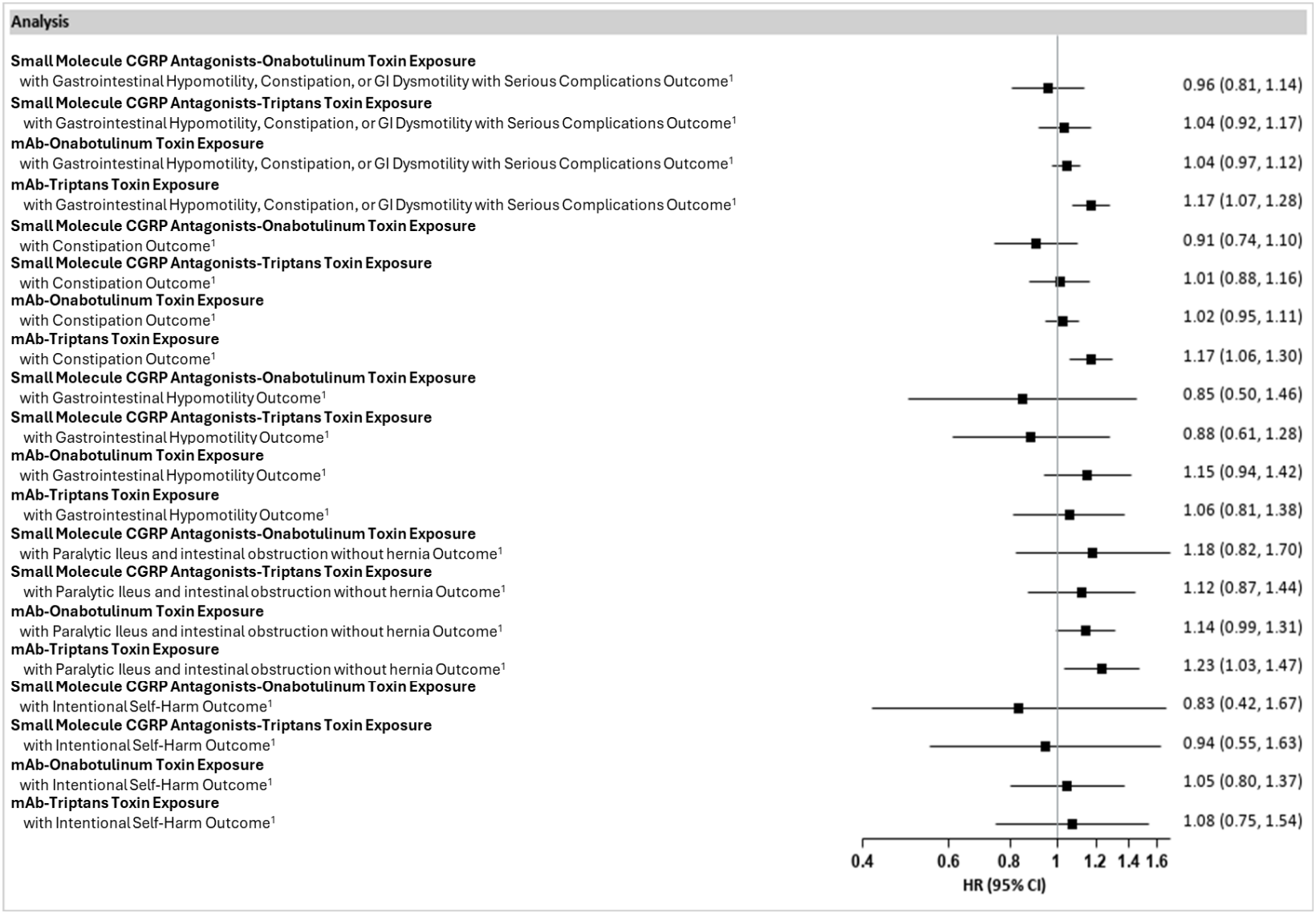


Figure 21b. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Propensity Score Matched Conditional Analyses in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025



[1]Fixed Ratio 1:1 Propensity Score Matched Conditional Analysis; Caliper=0.05

Figure 21c. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Propensity Score Matched Unconditional Analyses in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025



[1]Fixed Ratio 1:1 Propensity Score Matched Unconditional Analysis; Caliper=0.05

Figure 22a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

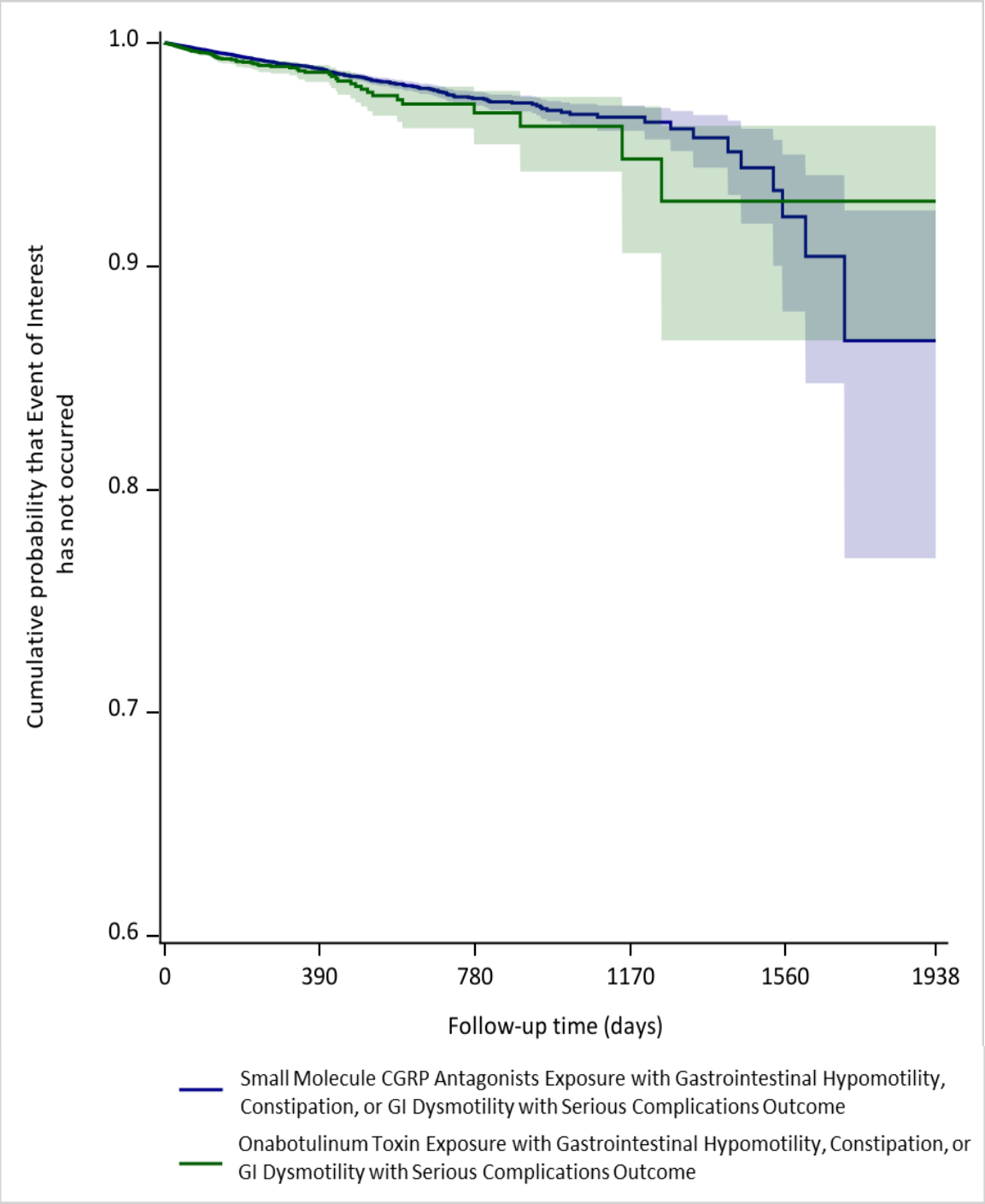


Figure 22b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Conditional Matched Population after Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

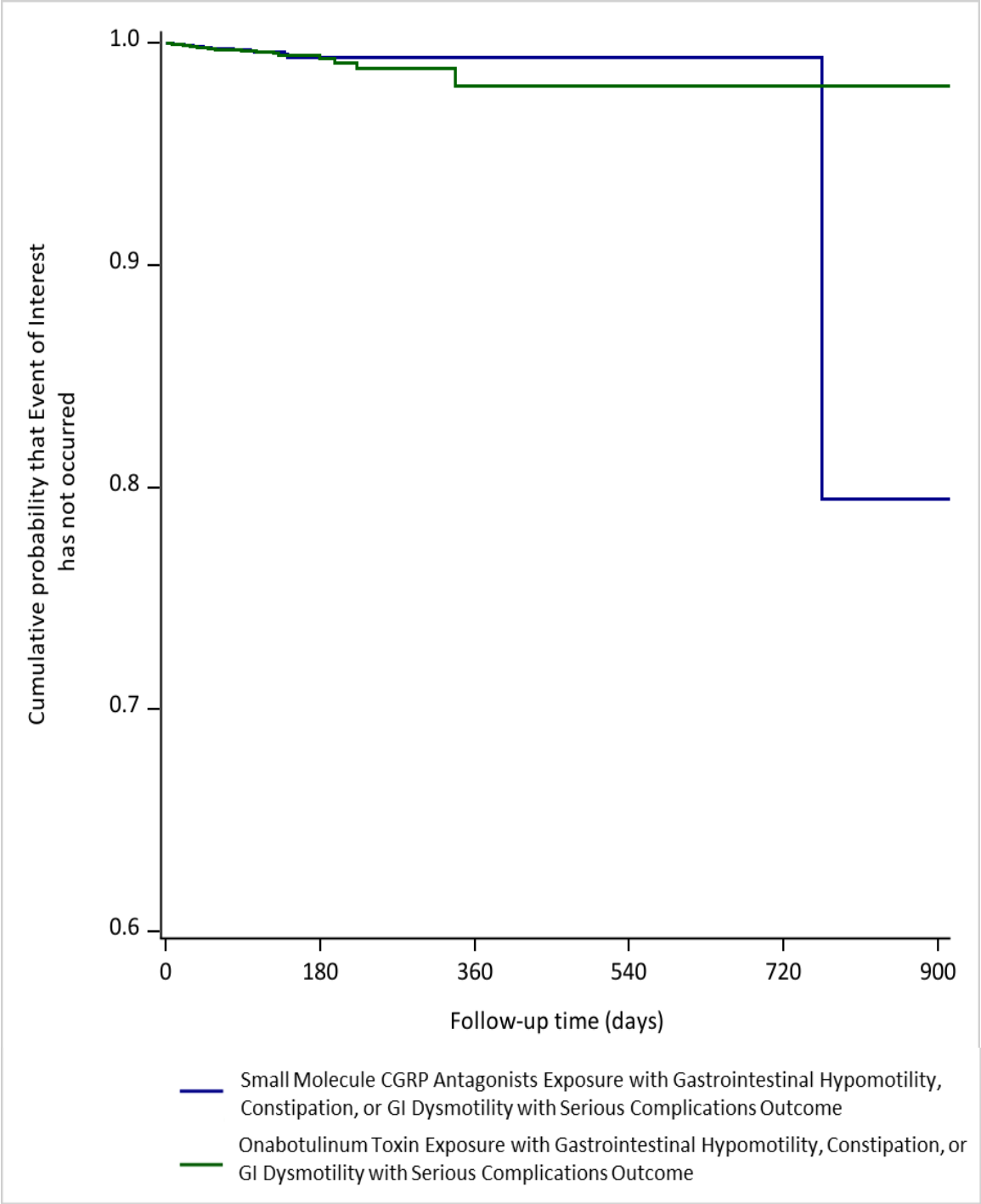


Figure 22c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Unconditional Matched Population after Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

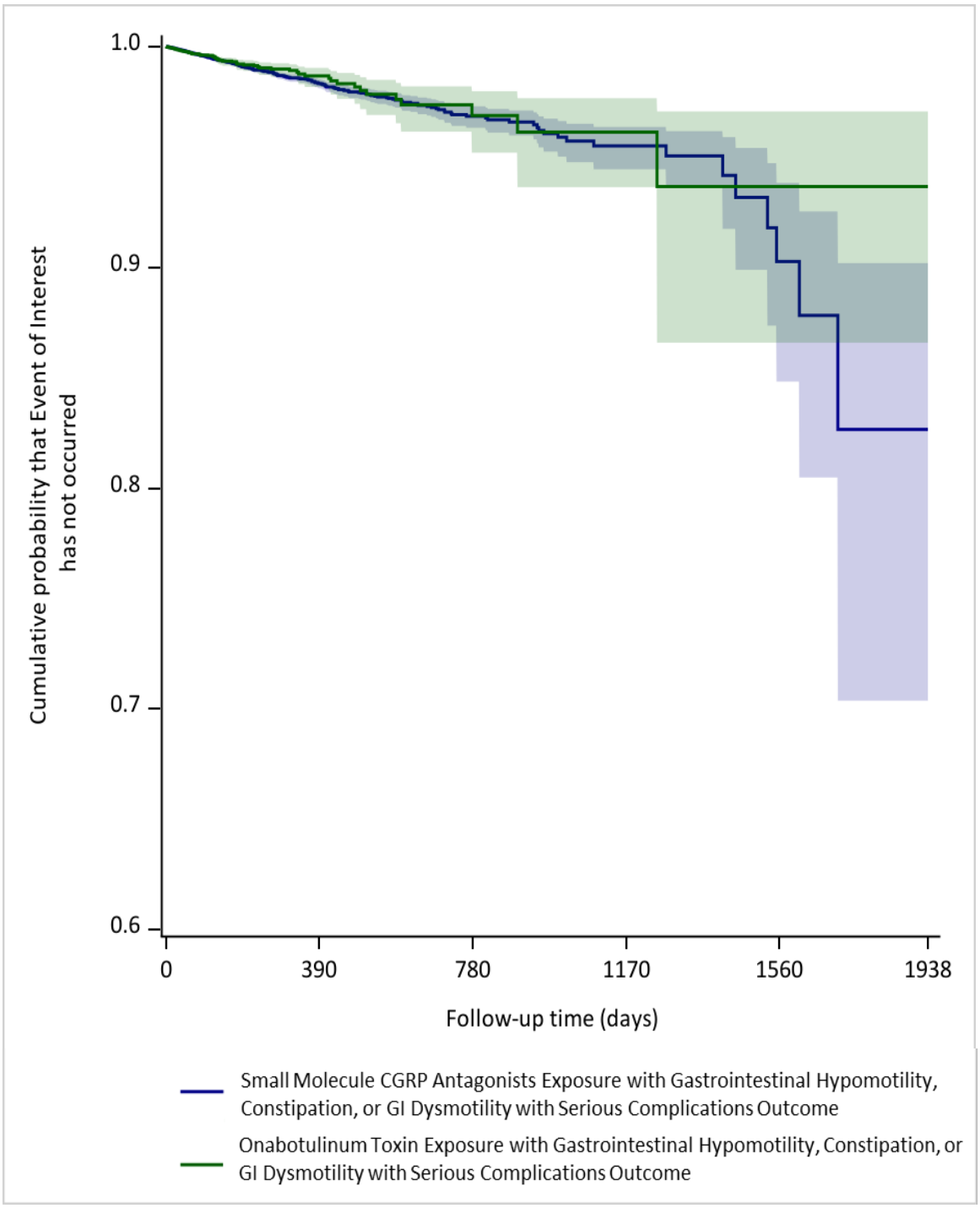


Figure 23a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

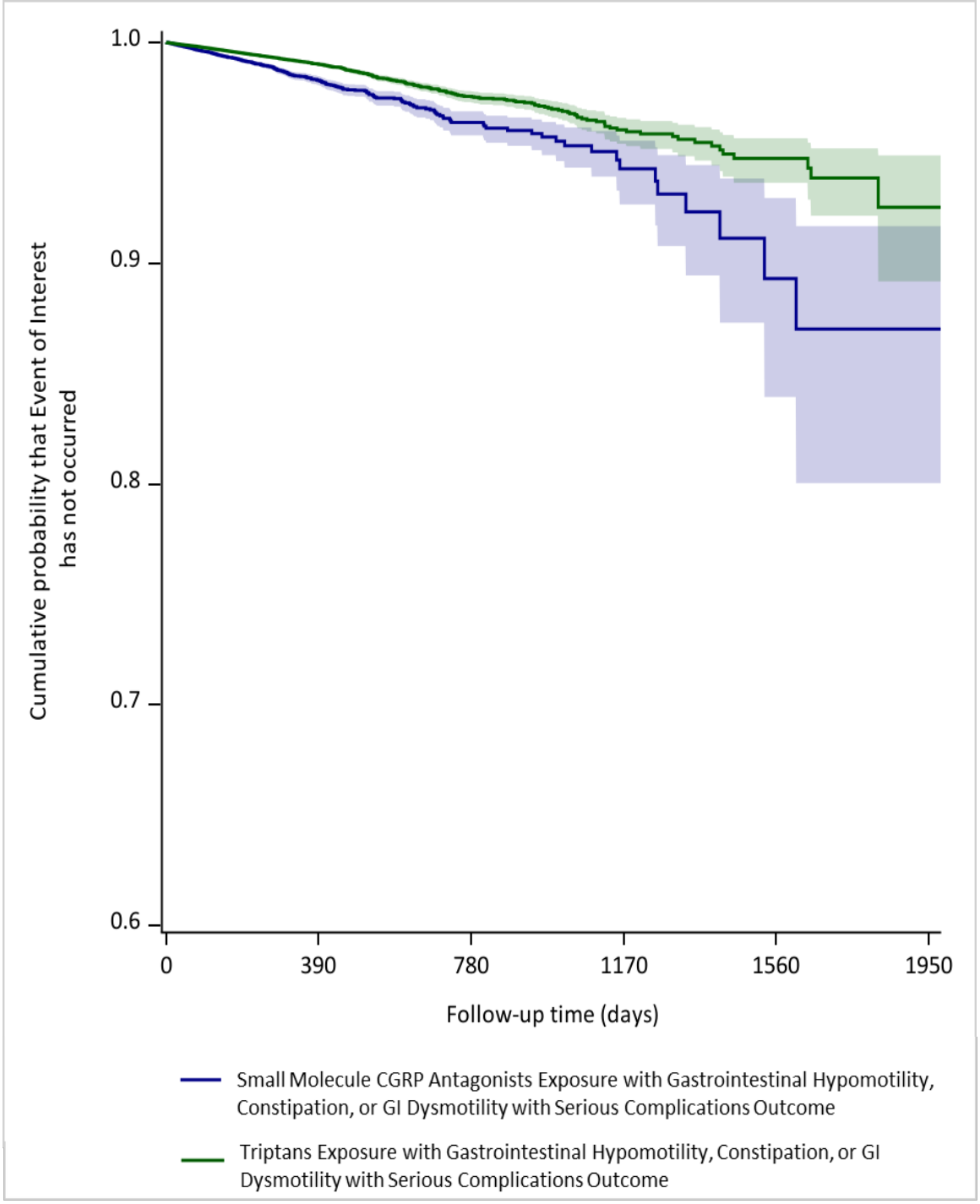


Figure 23b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Conditional Matched Population after Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

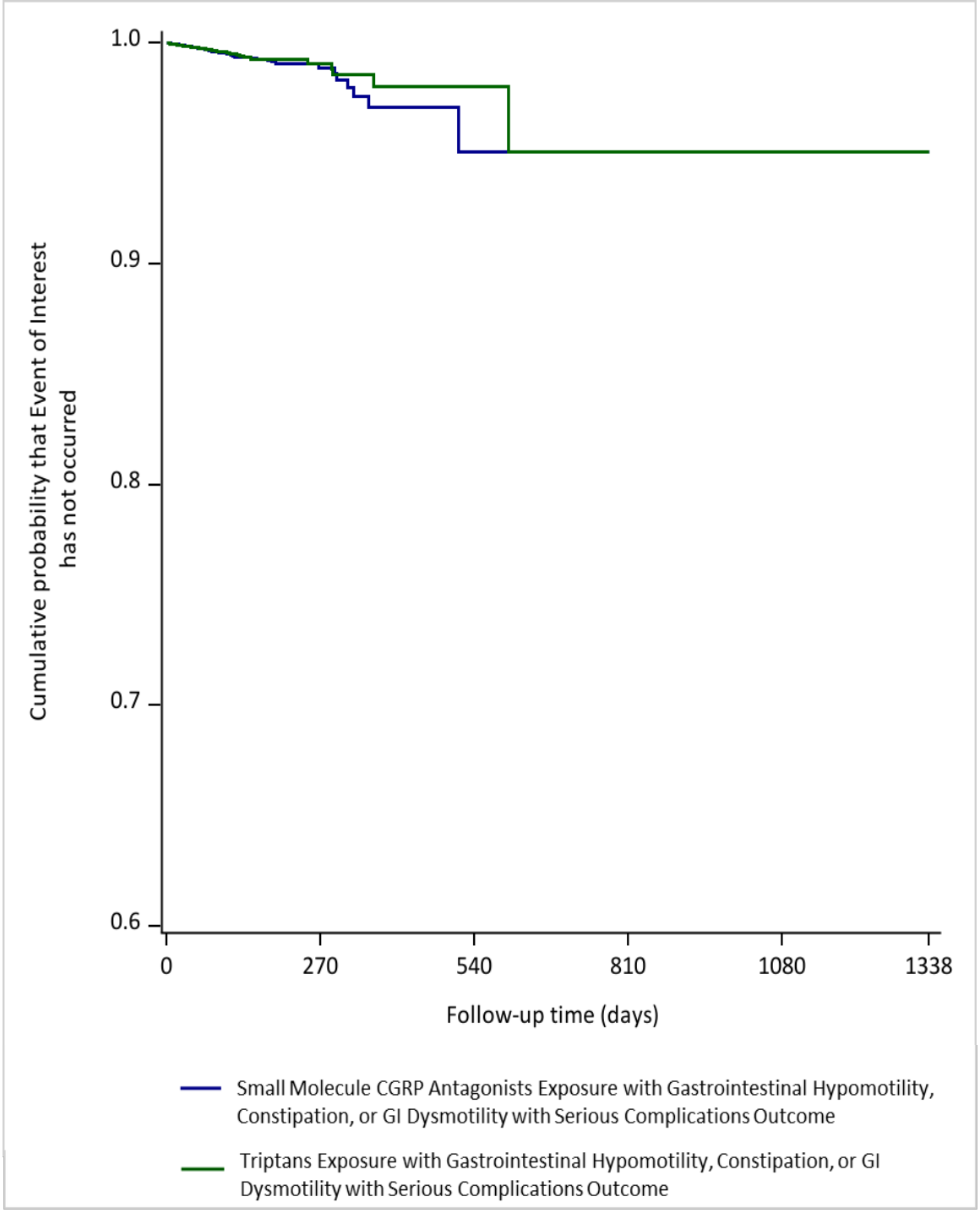


Figure 23c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Unconditional Matched Population after Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

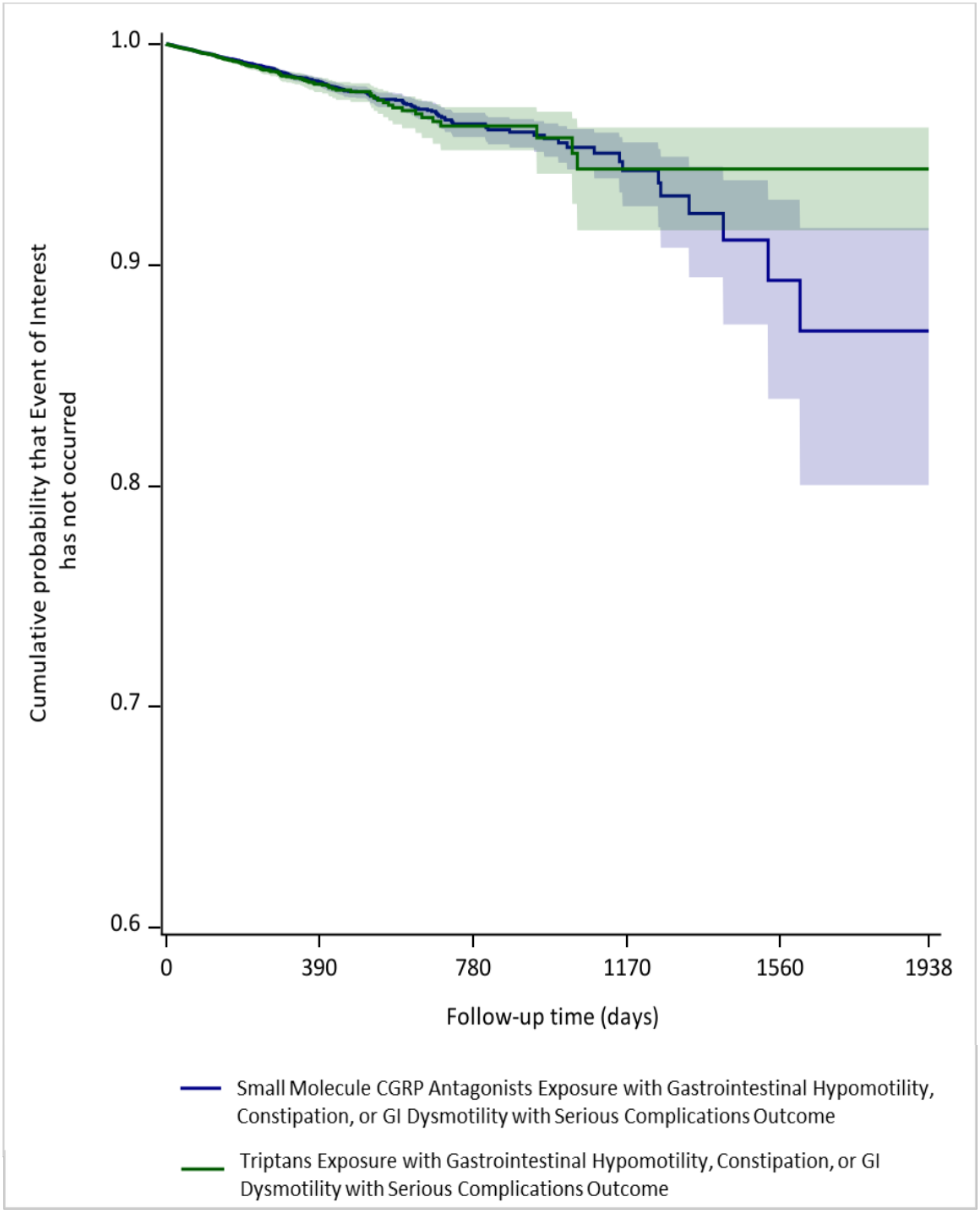


Figure 24a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

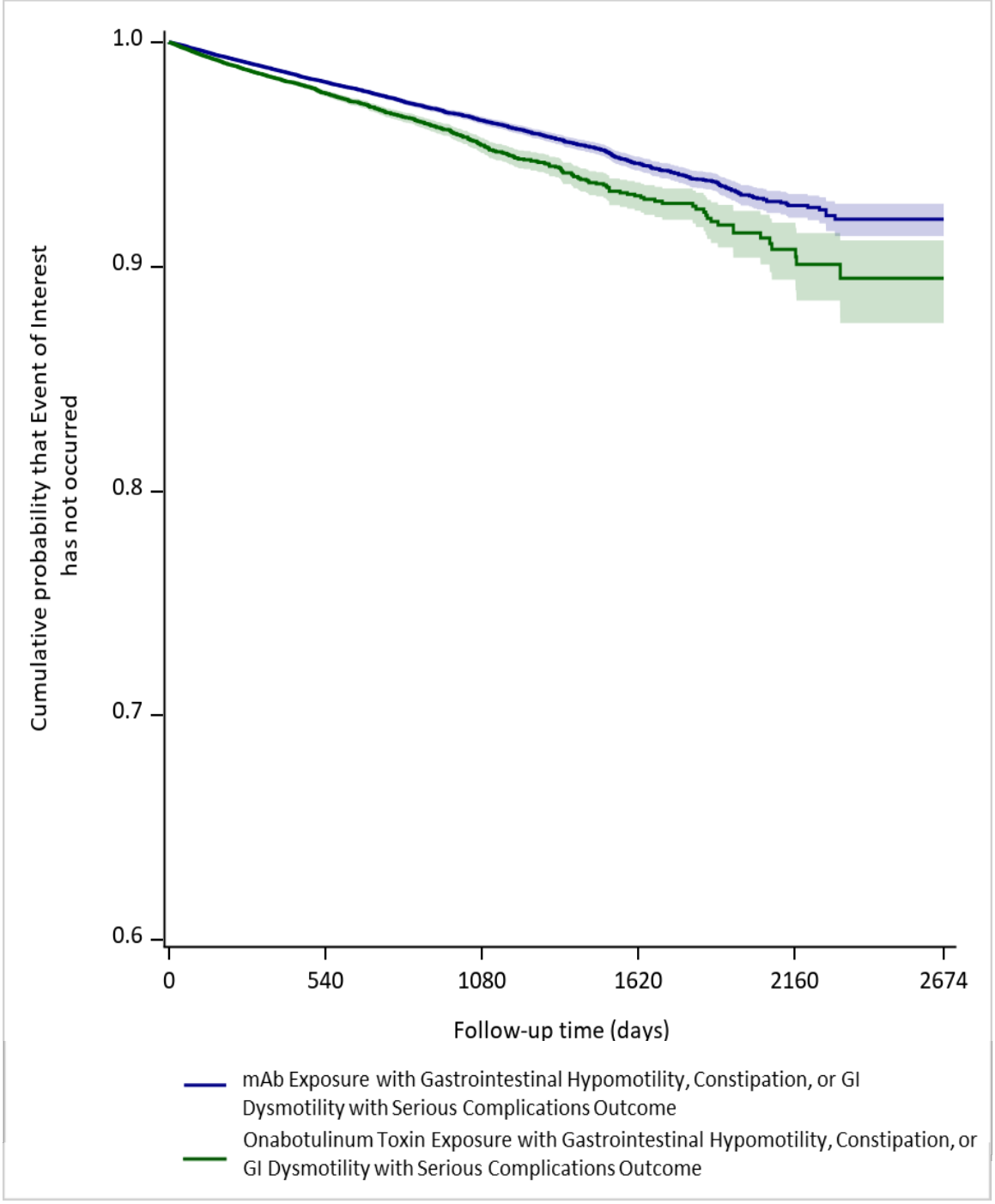


Figure 24b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Conditional Matched Population after mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

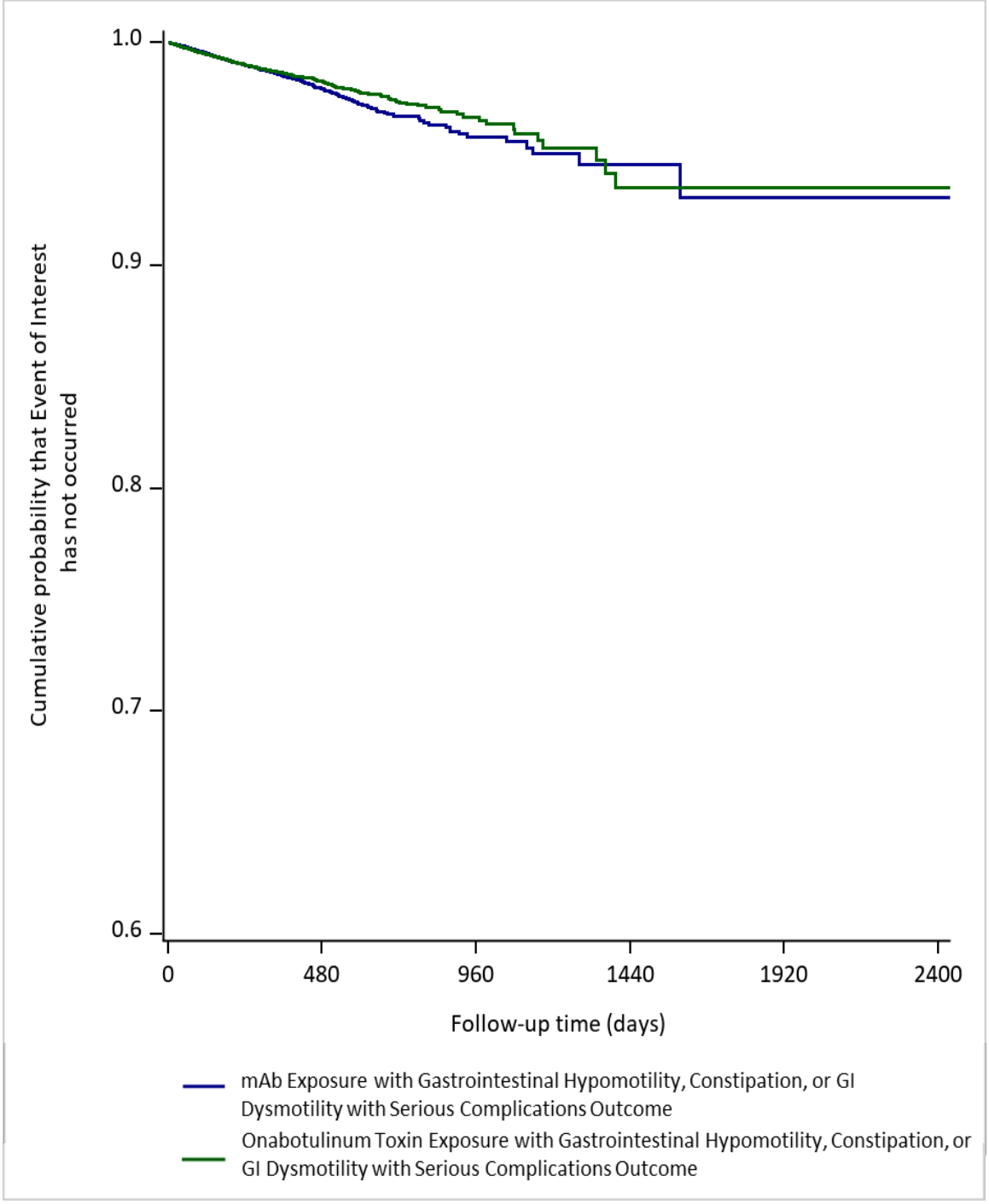


Figure 24c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Unconditional Matched Population after mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

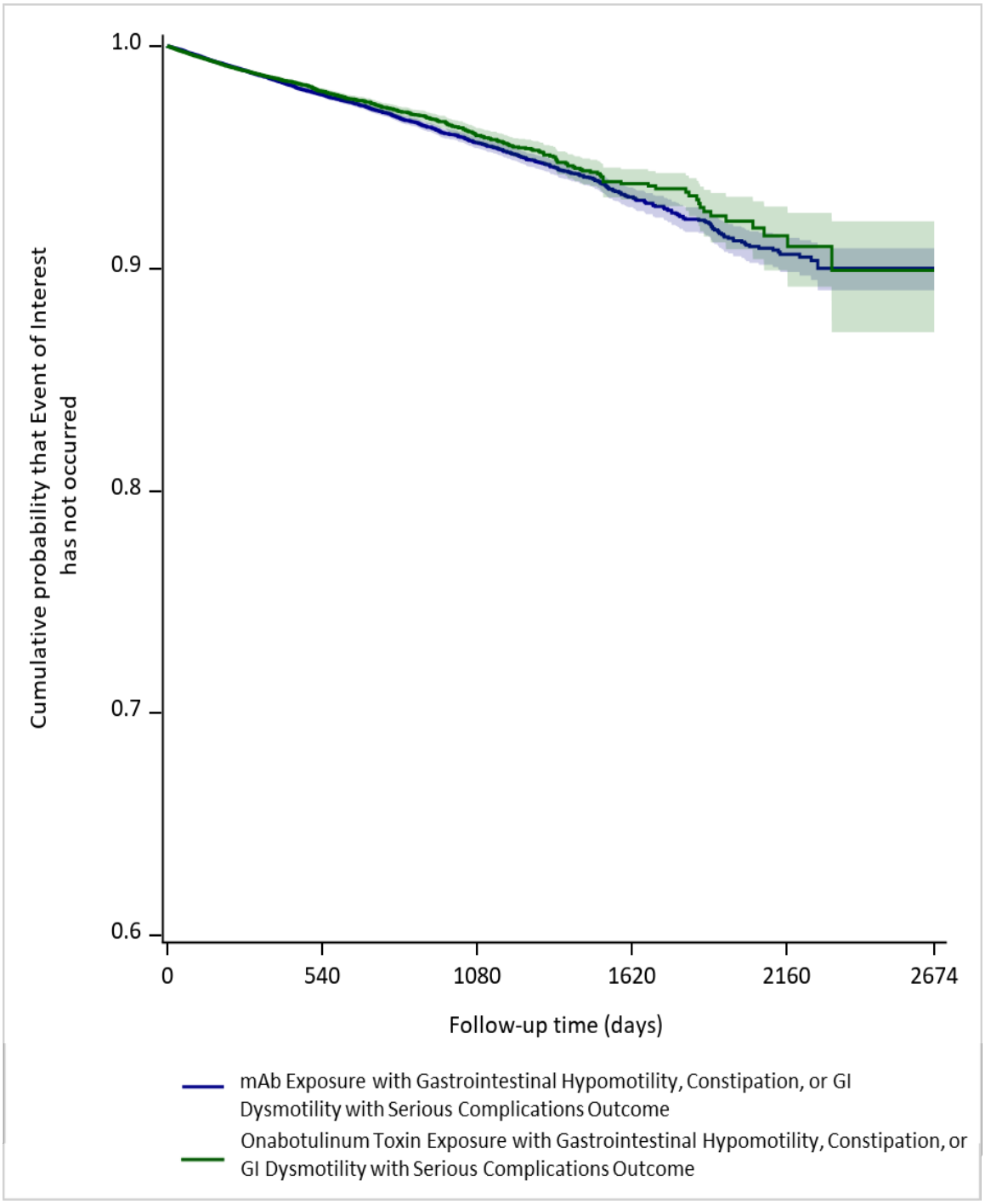


Figure 25a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

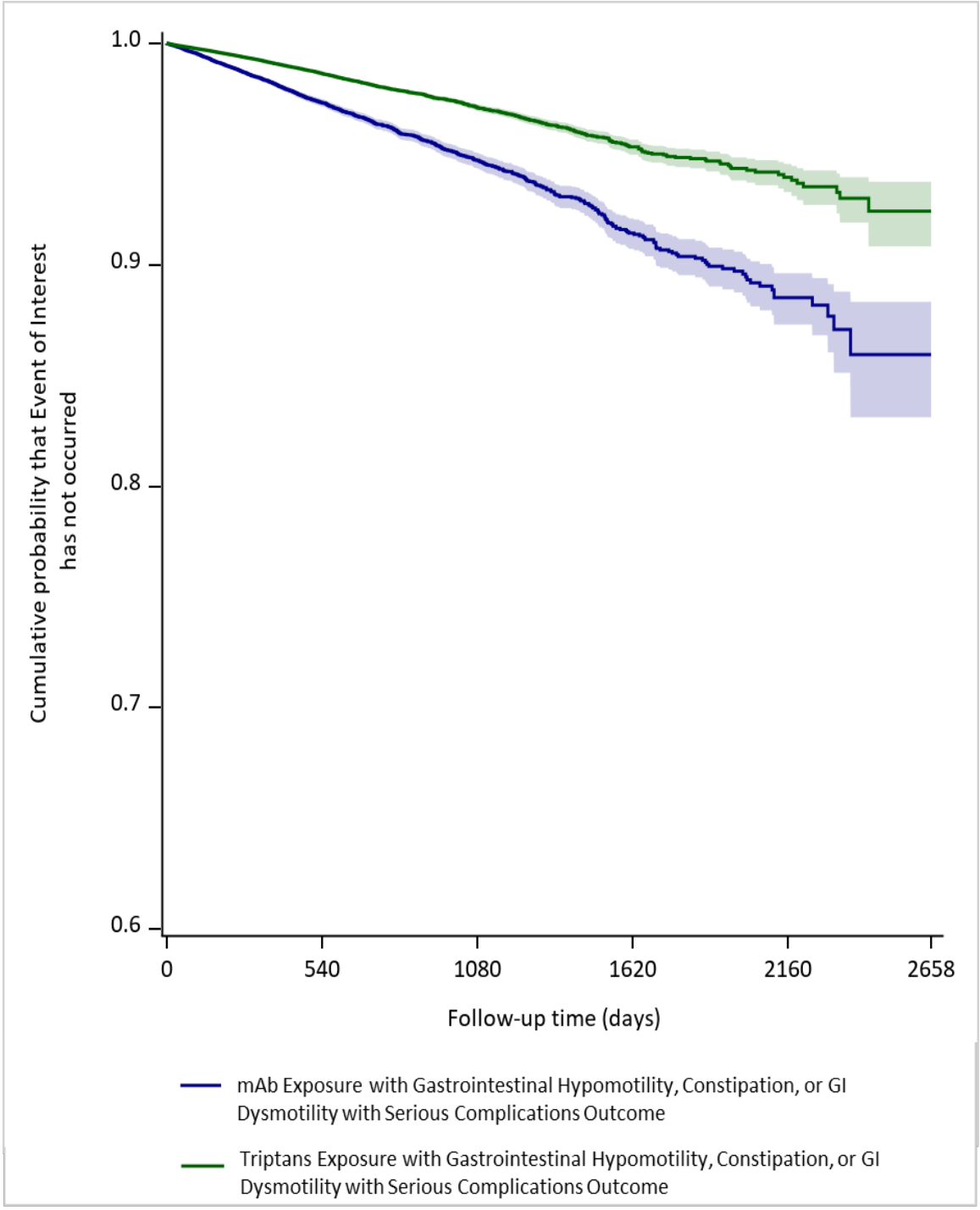


Figure 25b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Conditional Matched Population after mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

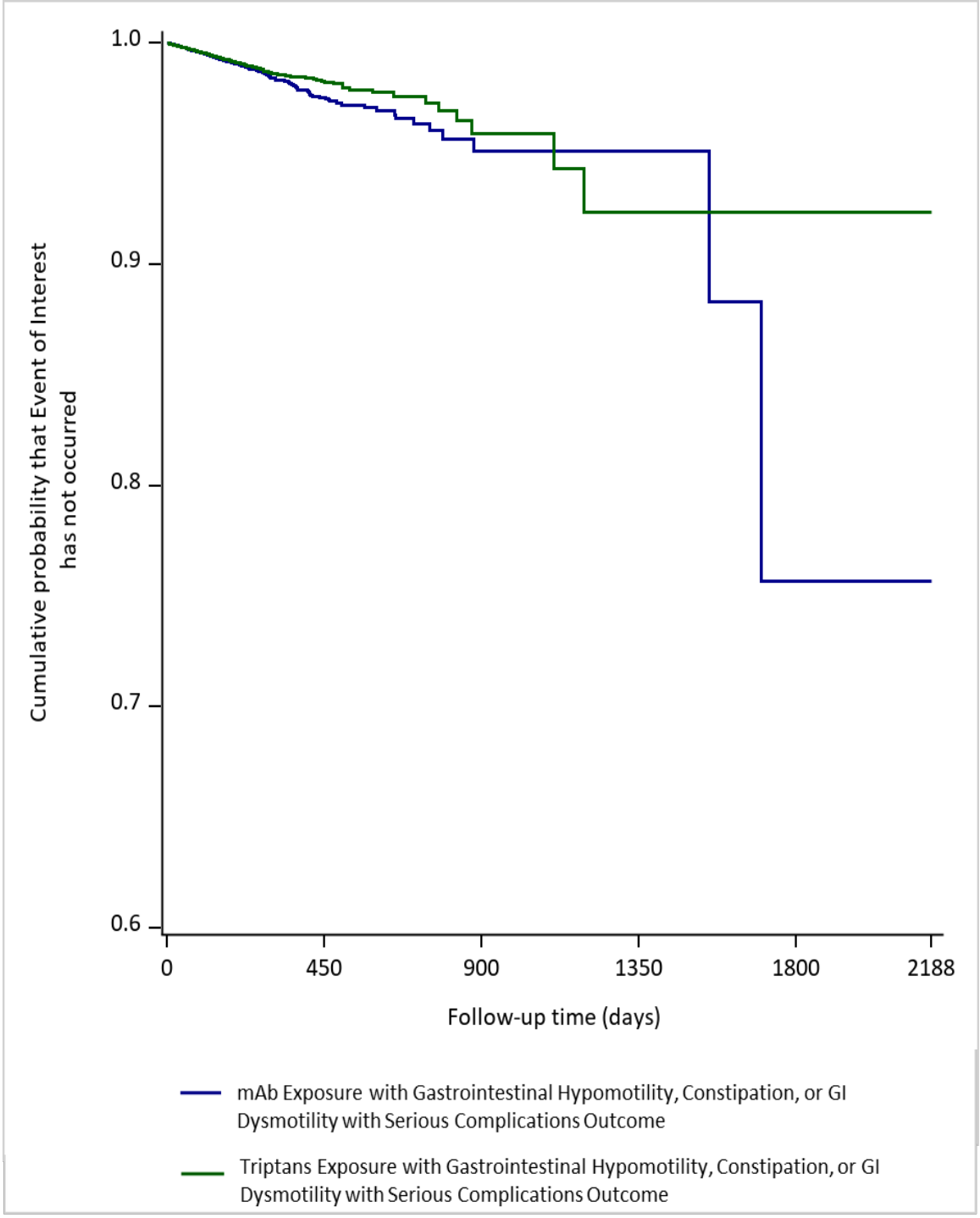


Figure 25c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome from the Unconditional Matched Population after mAb-Triptans Exposure with Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

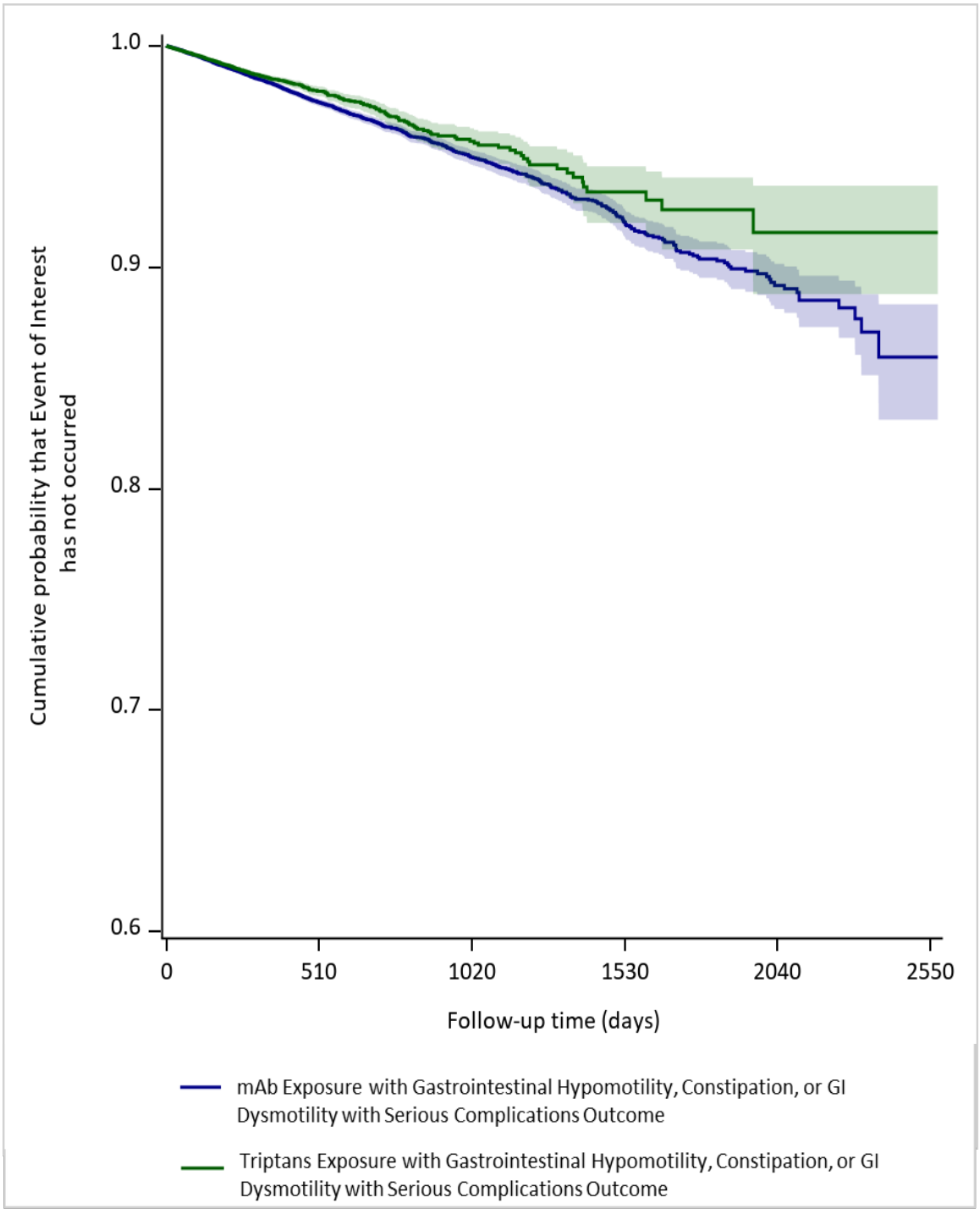


Figure 26a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

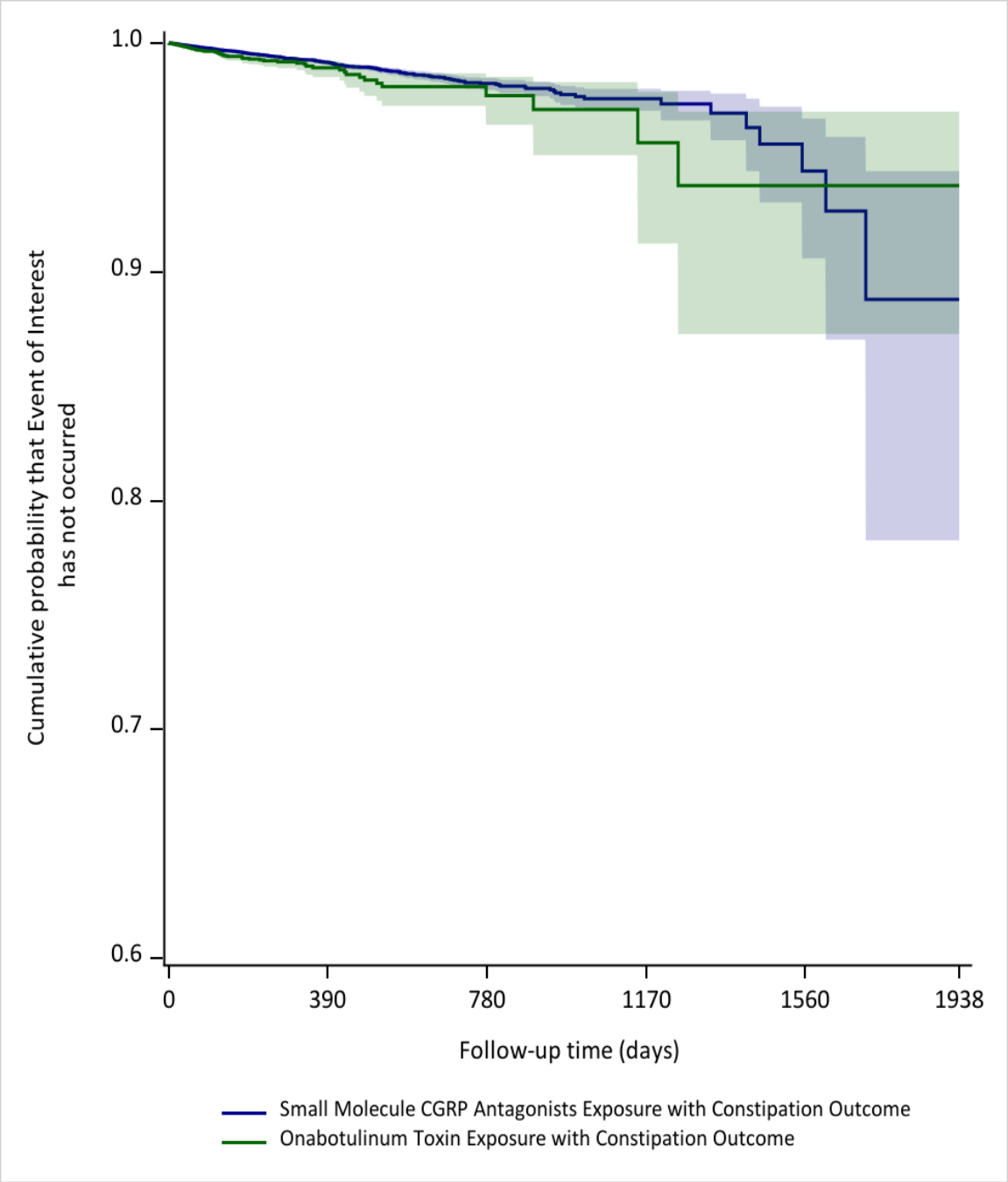


Figure 26b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome from the Conditional Matched Population after Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

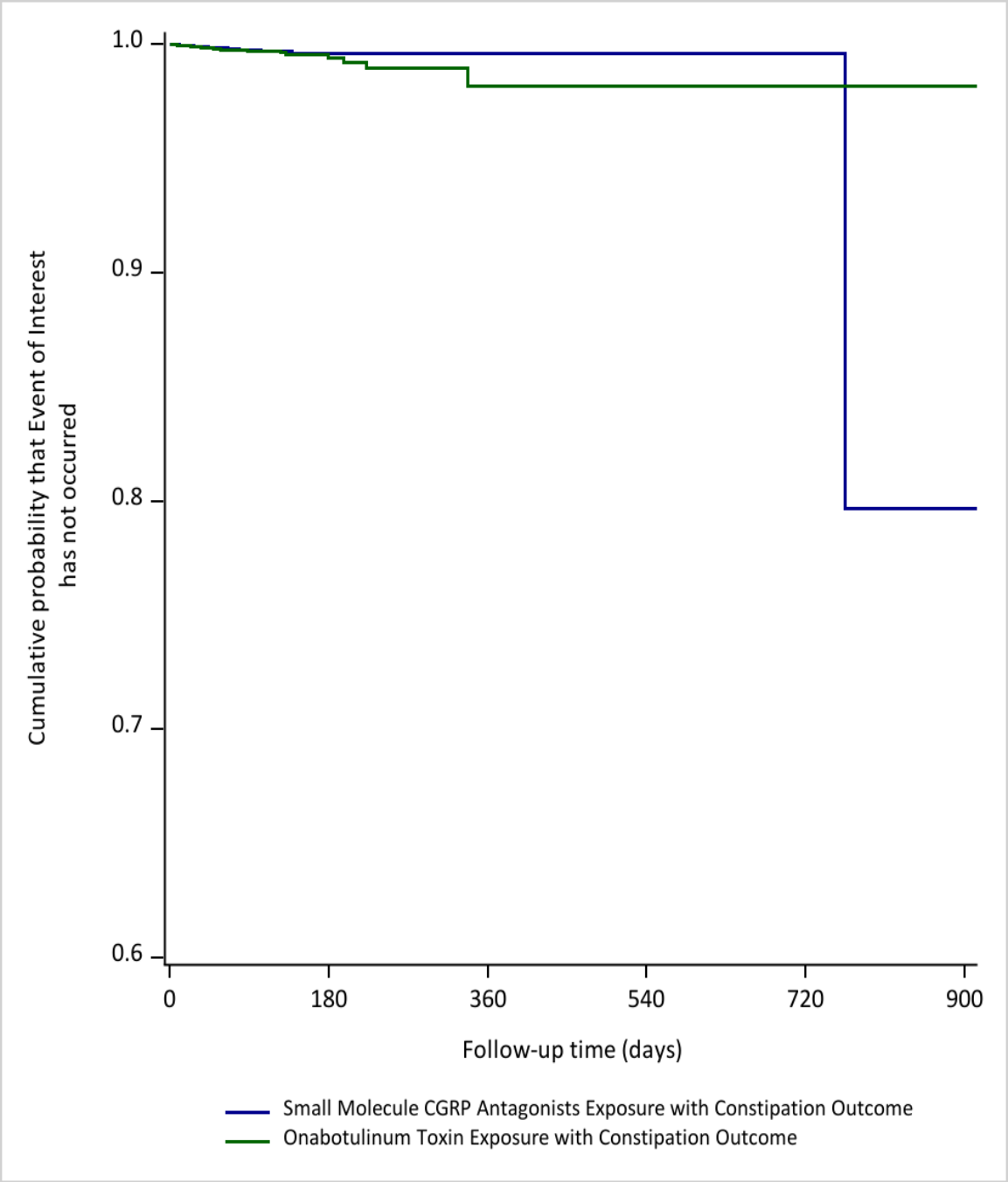


Figure 26c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome from the Unconditional Matched Population after Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

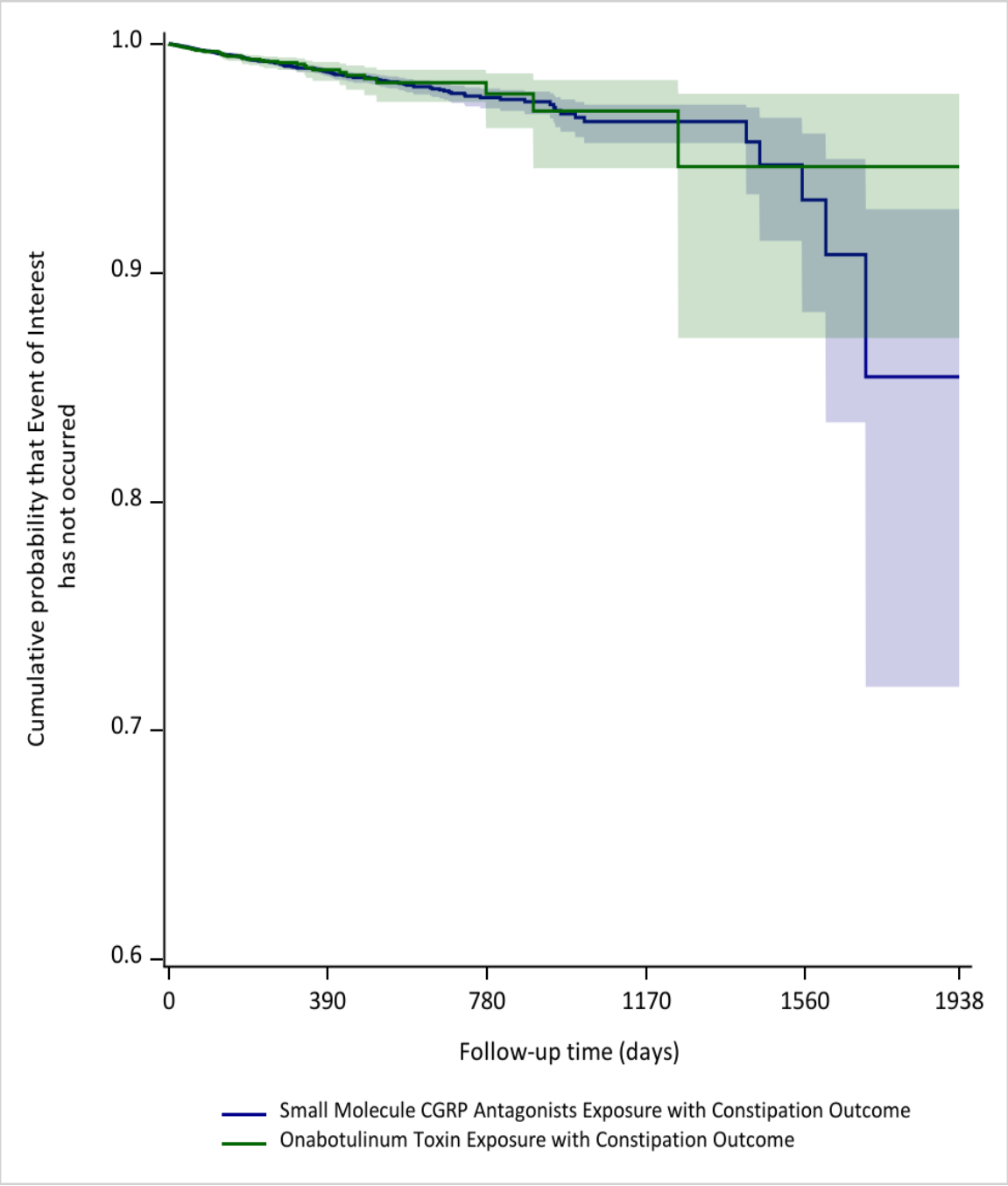


Figure 27a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

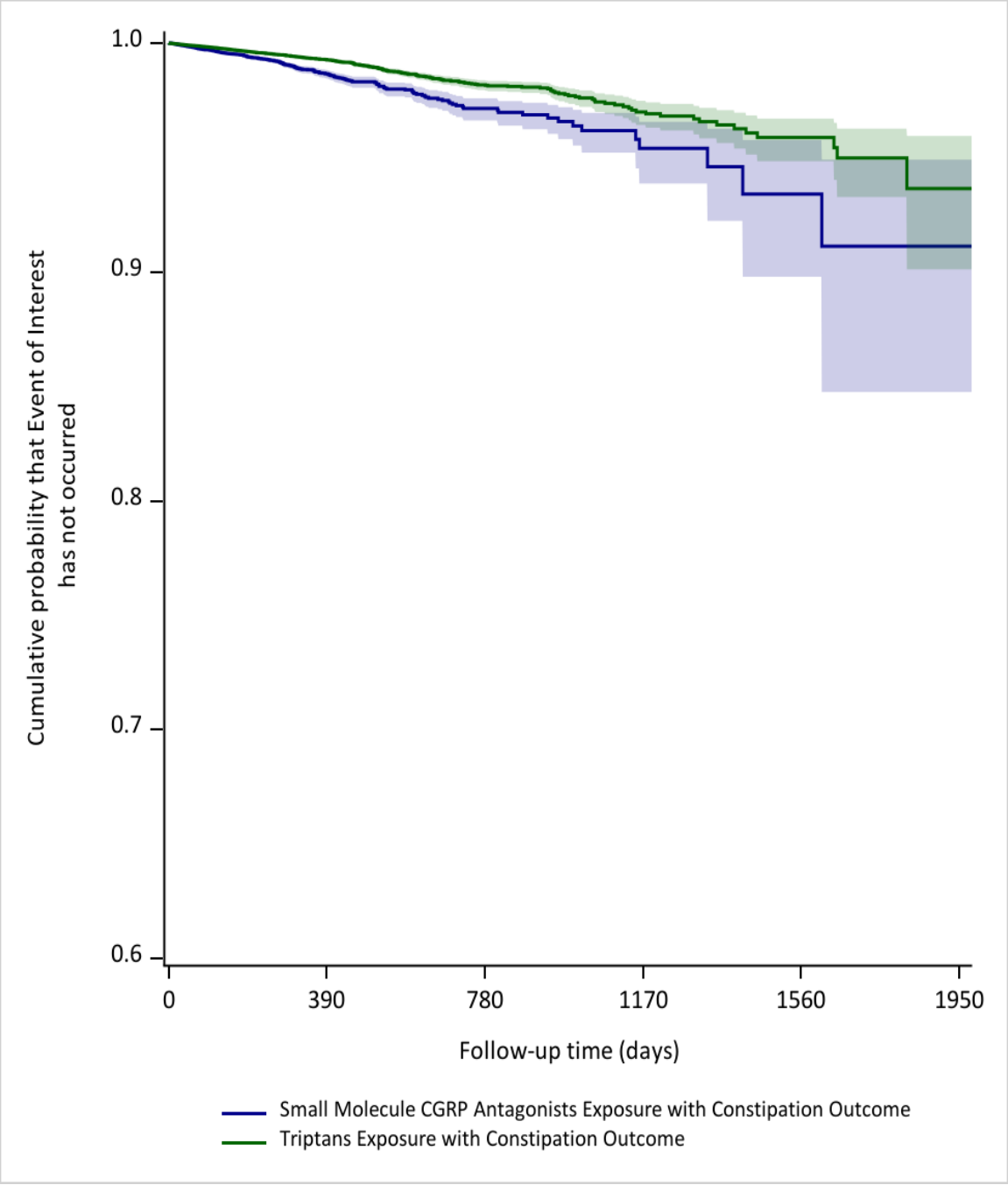


Figure 27b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome from the Conditional Matched Population after Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

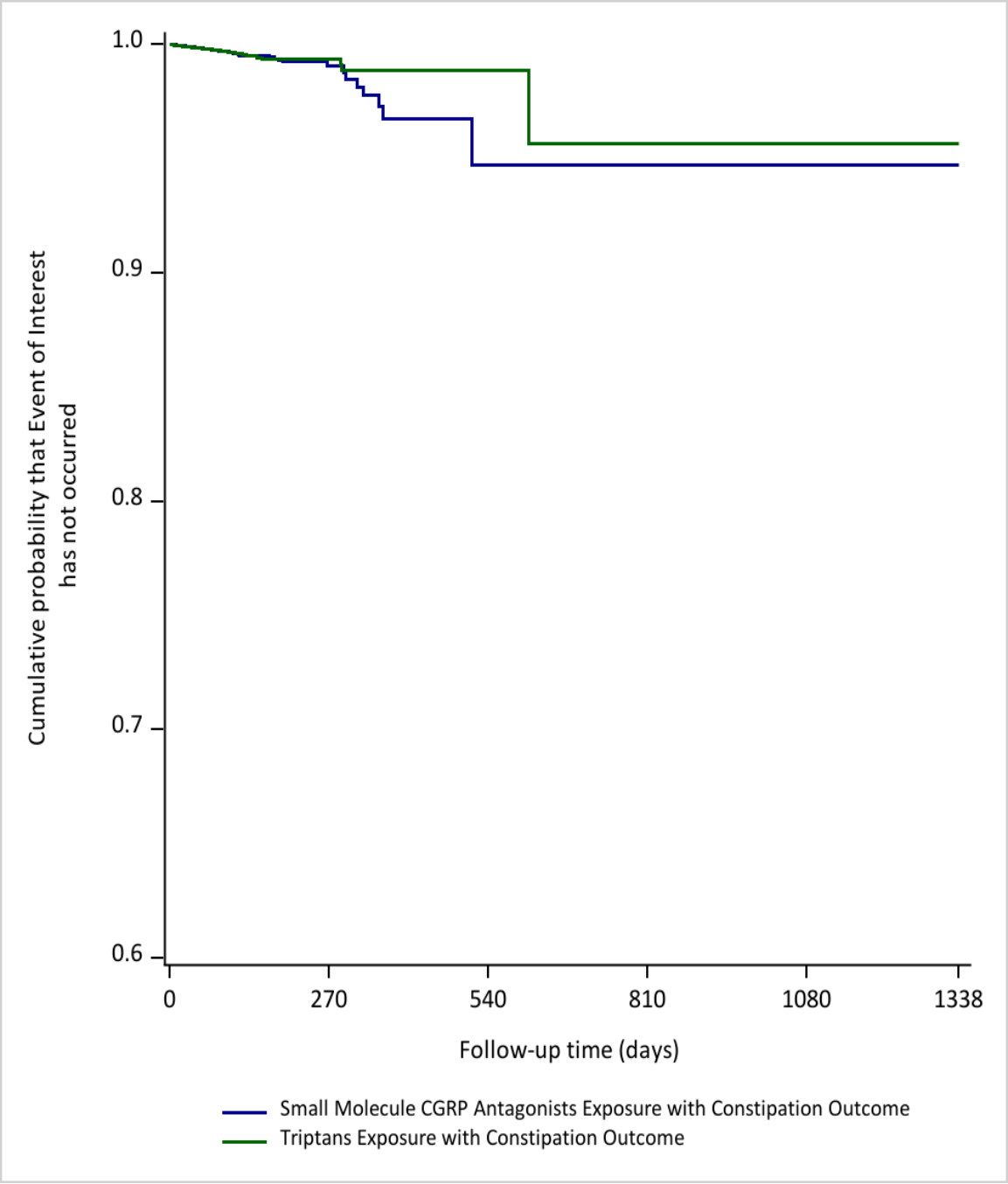


Figure 27c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome from the Unconditional Matched Population after Small Molecule CGRP Antagonists-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

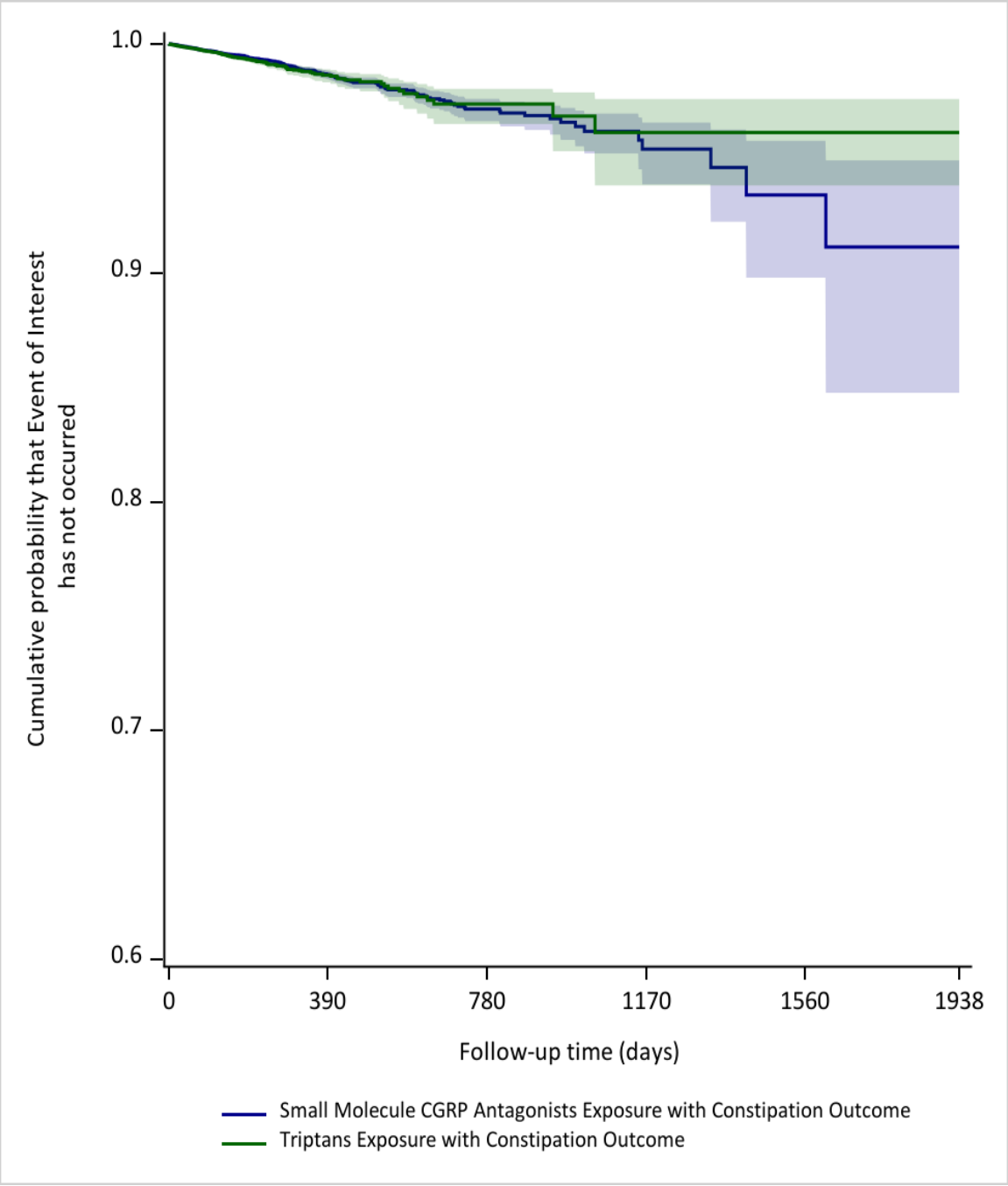


Figure 28a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Constipation Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

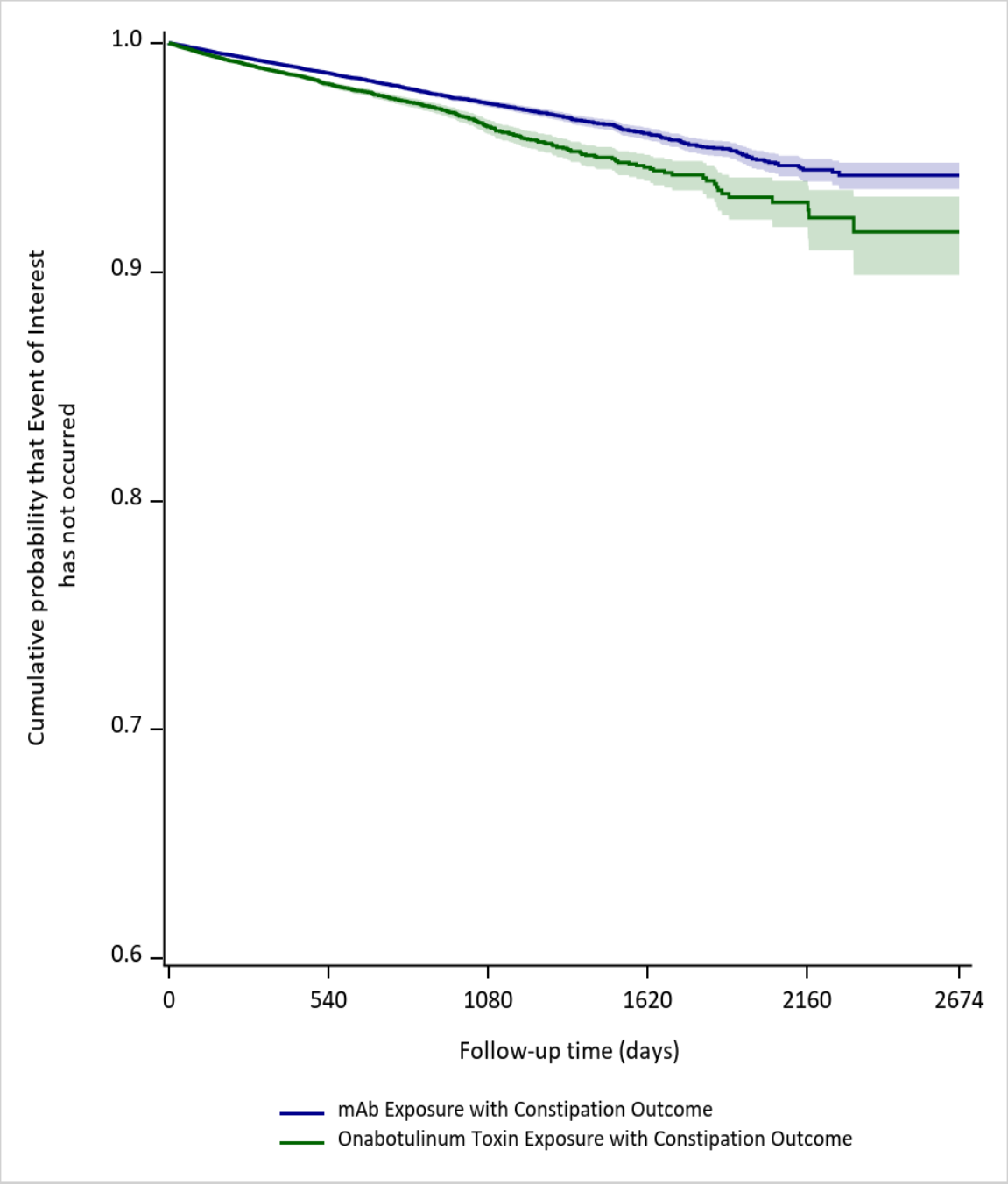


Figure 28b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Constipation Outcome from the Conditional Matched Population after mAb-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

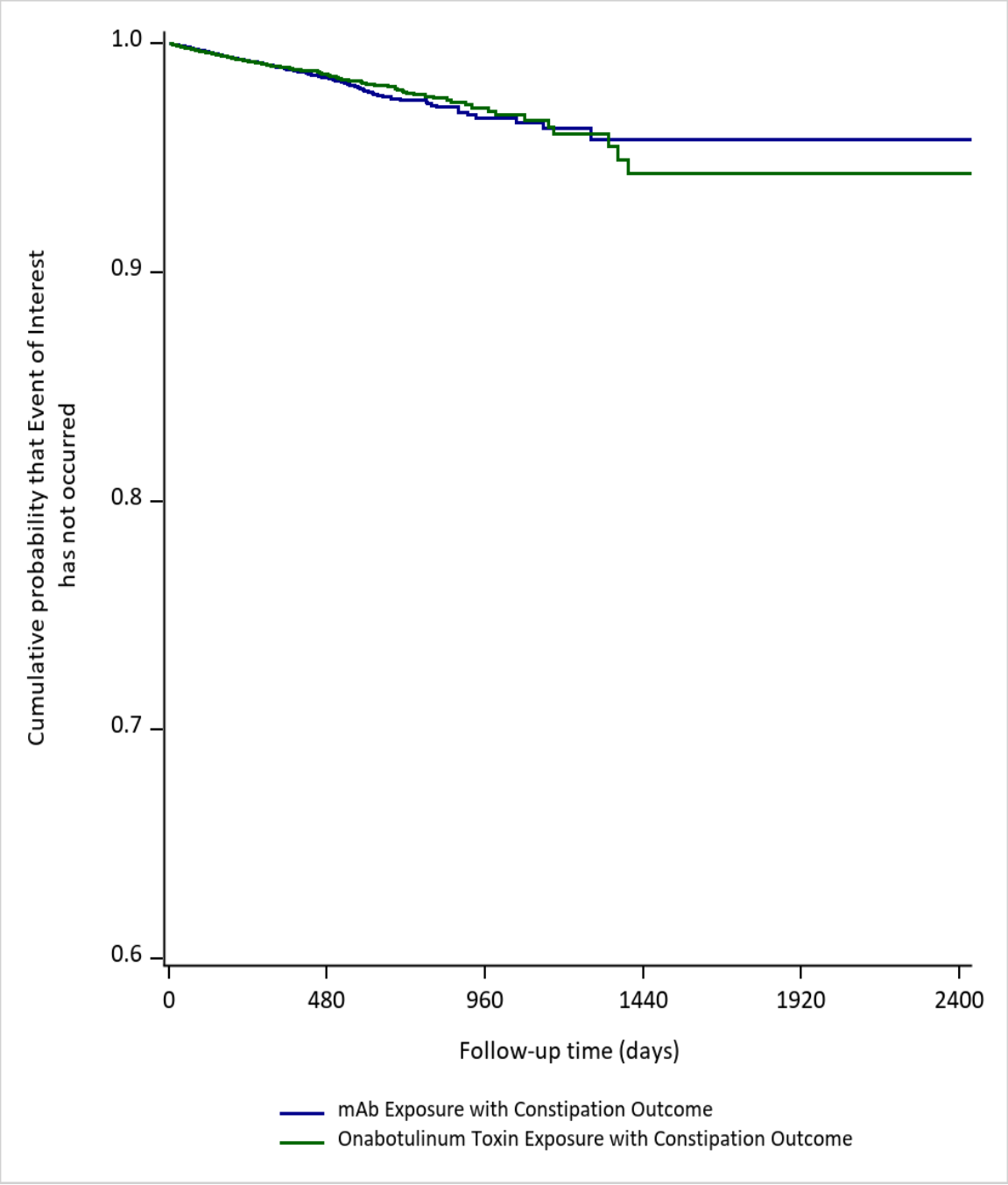


Figure 28c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Constipation Outcome from the Unconditional Matched Population after mAb-Onabotulinum Toxin Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

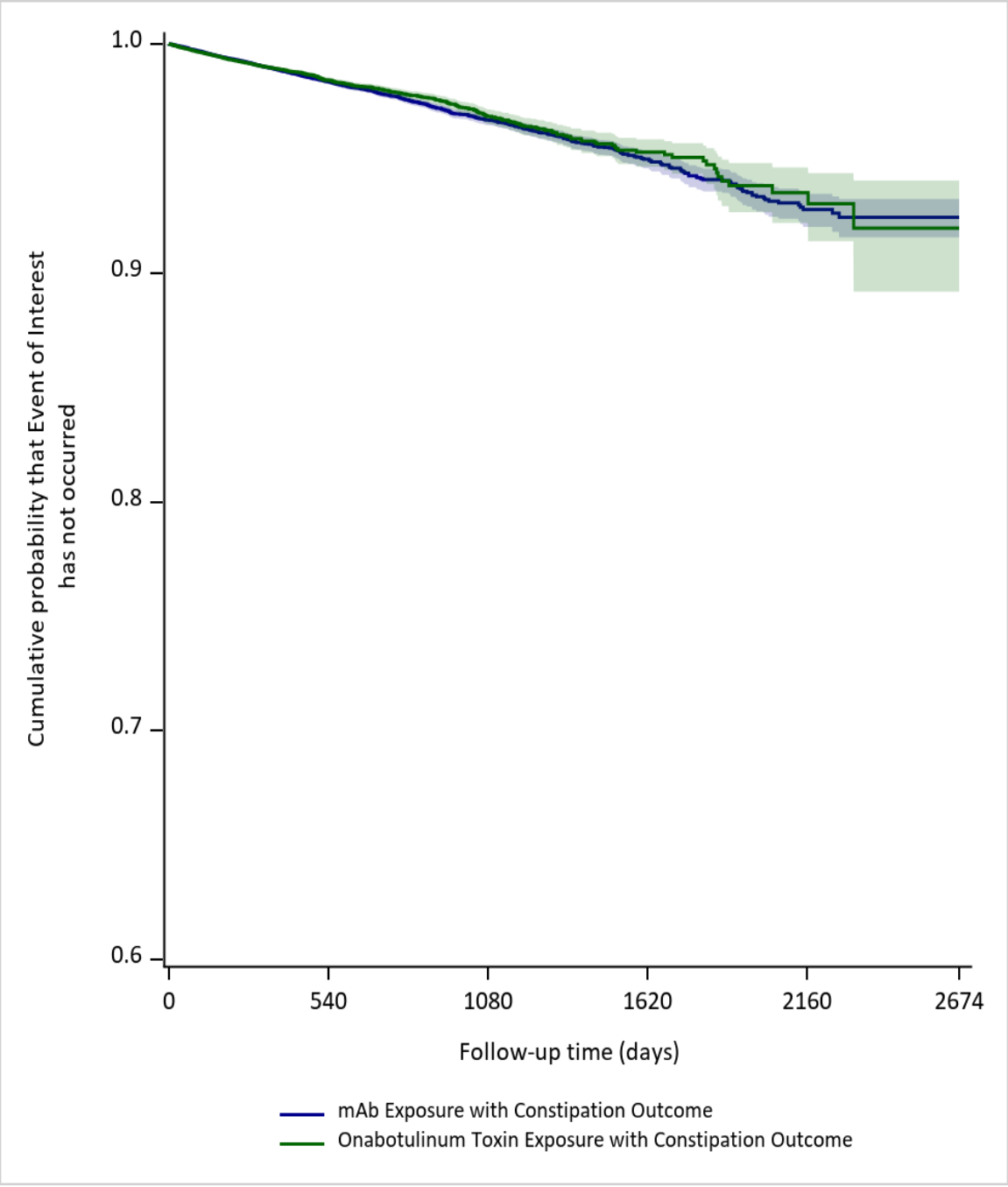


Figure 29a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Triptans Exposure with Constipation Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

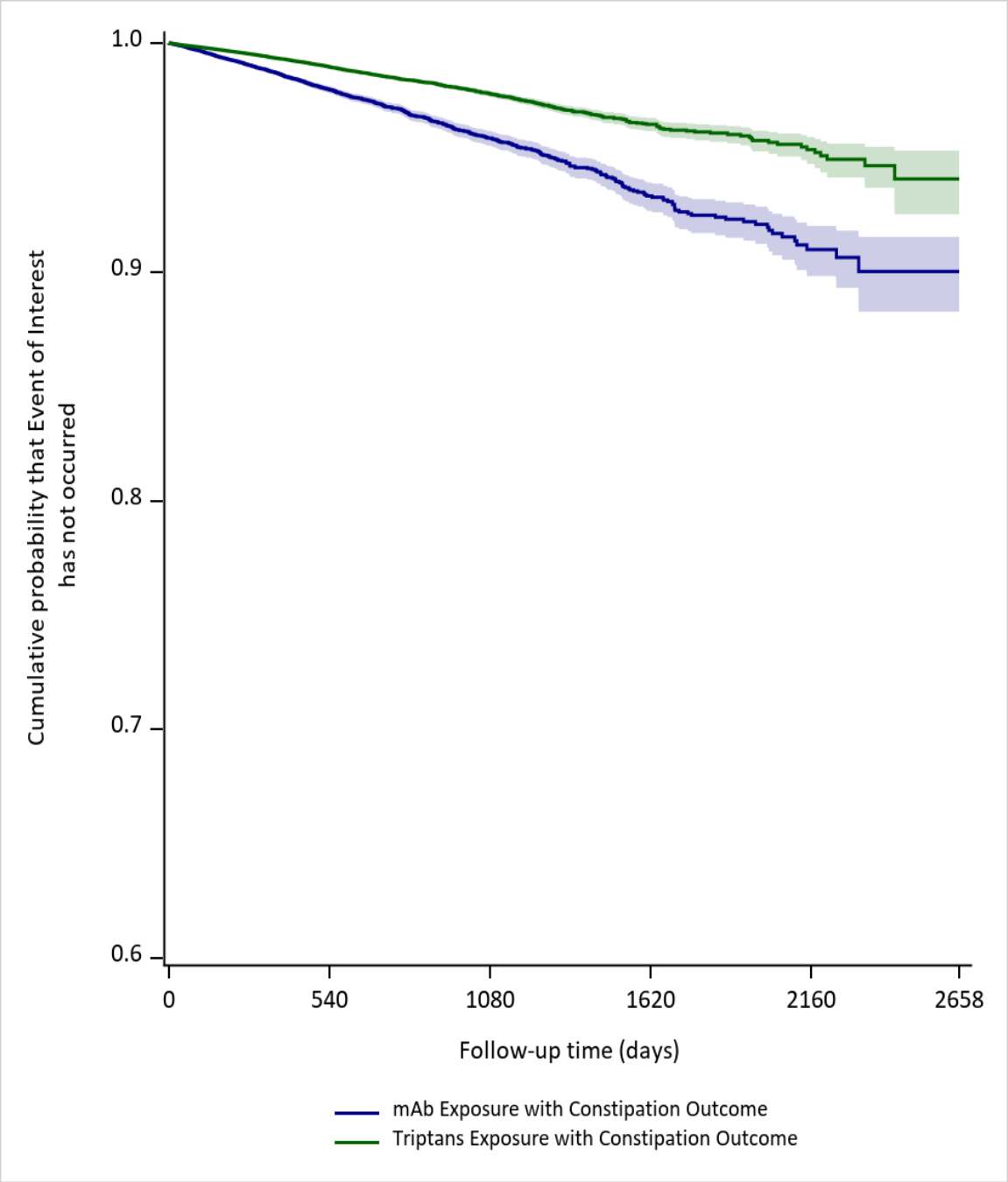


Figure 29b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among mAb-Triptans Exposure with Constipation Outcome from the Conditional Matched Population after mAb-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

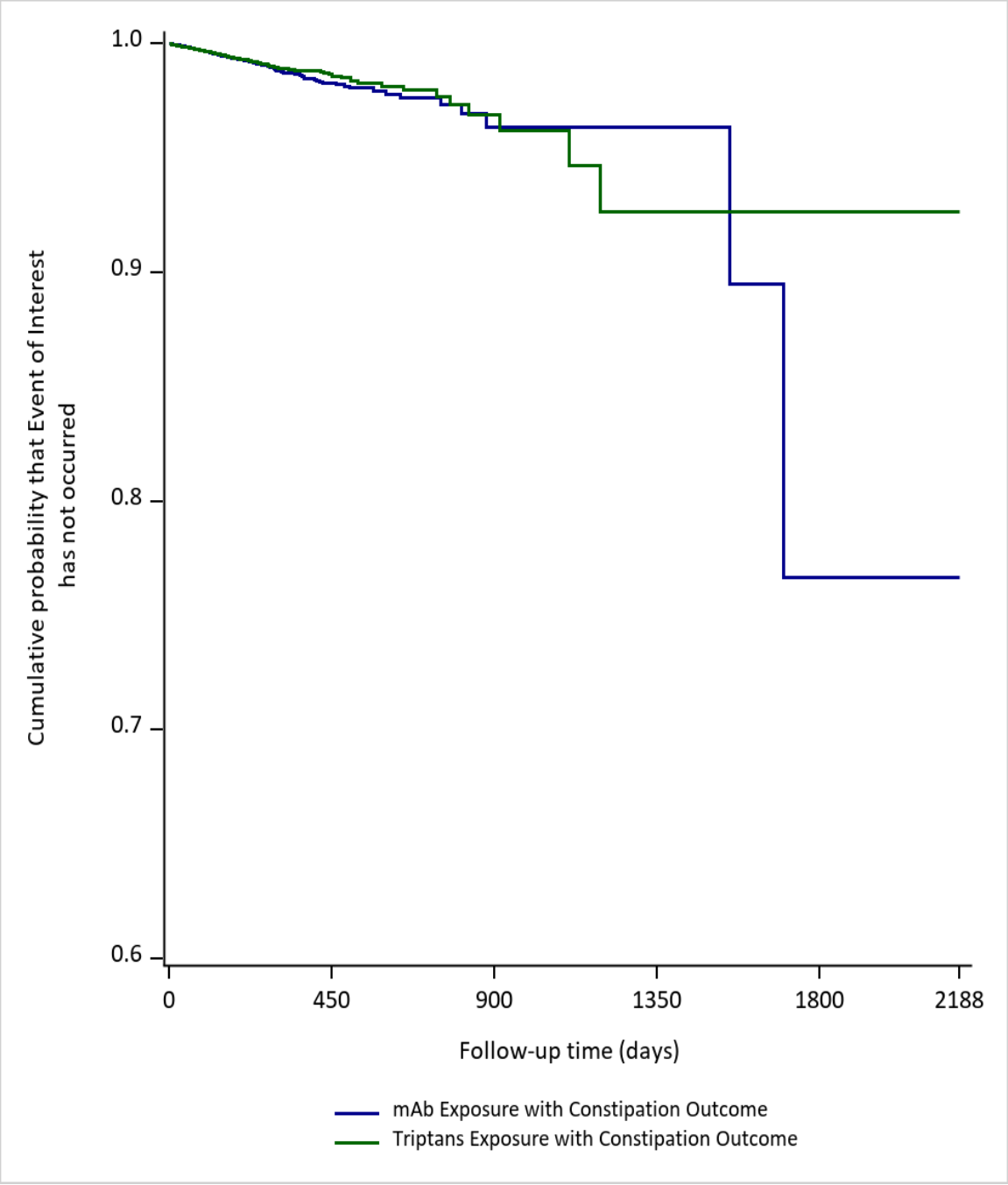


Figure 29c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Triptans Exposure with Constipation Outcome from the Unconditional Matched Population after mAb-Triptans Exposure with Constipation Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

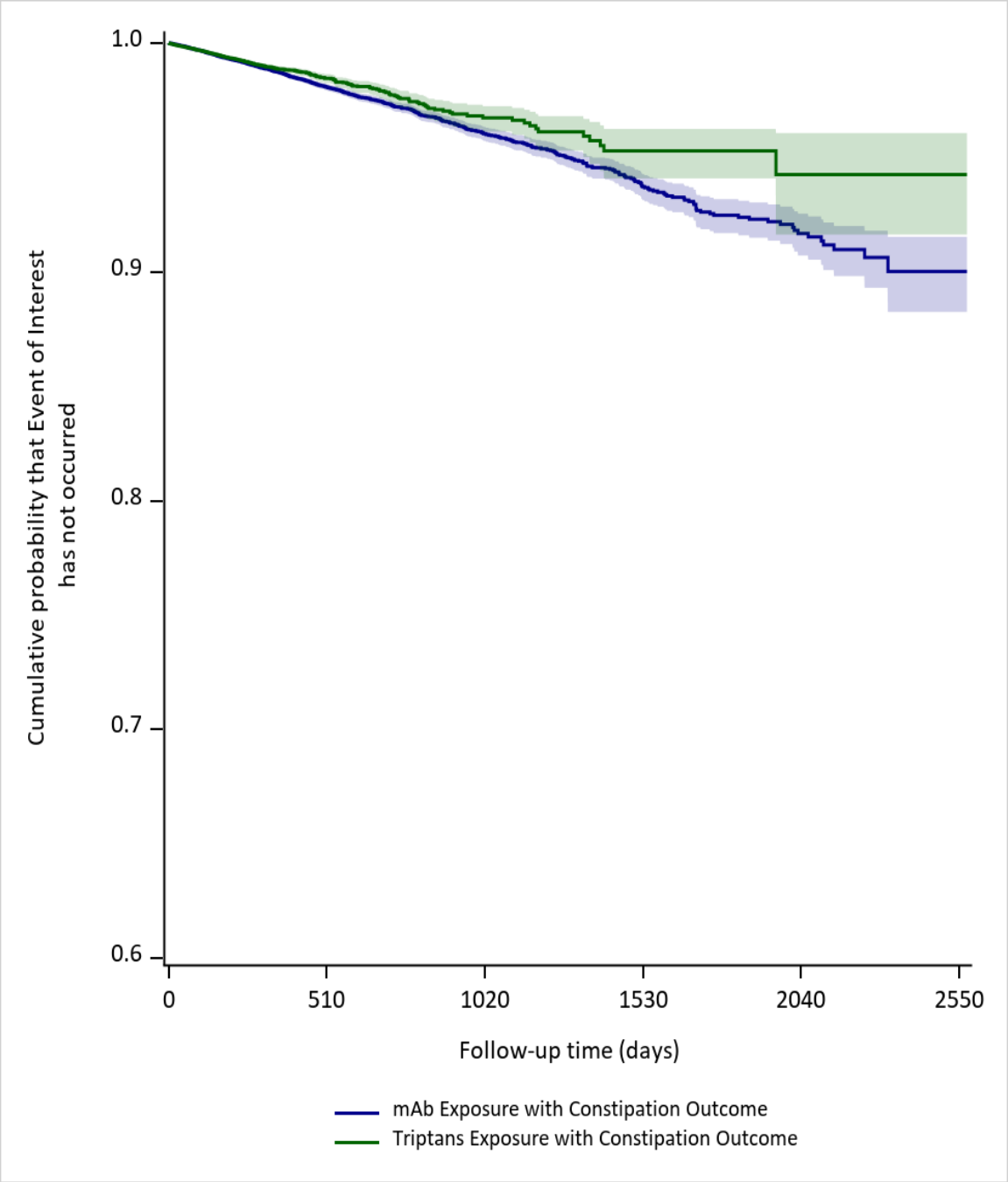


Figure 30a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

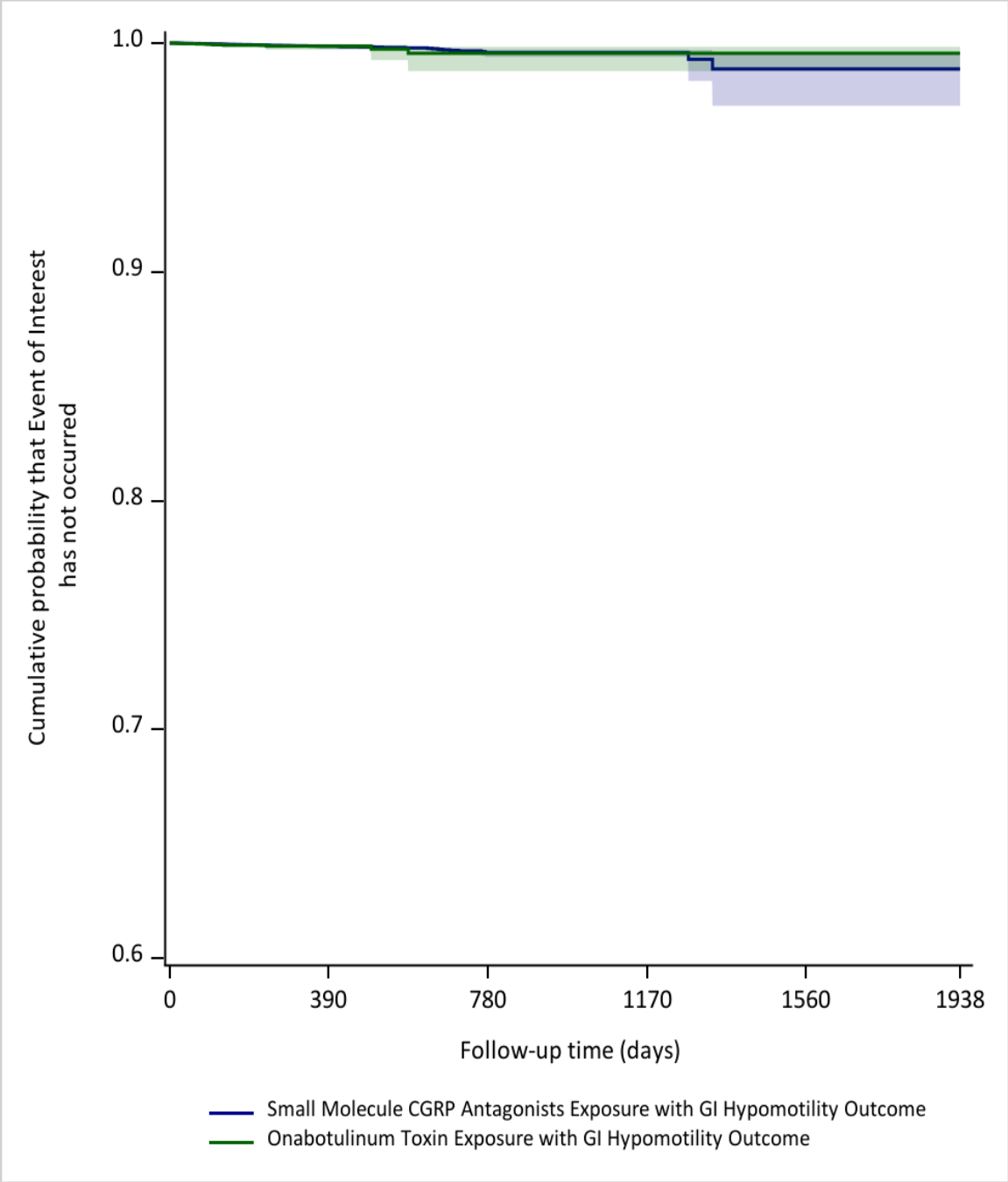


Figure 30b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome from the Conditional Matched Population after Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with GI Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

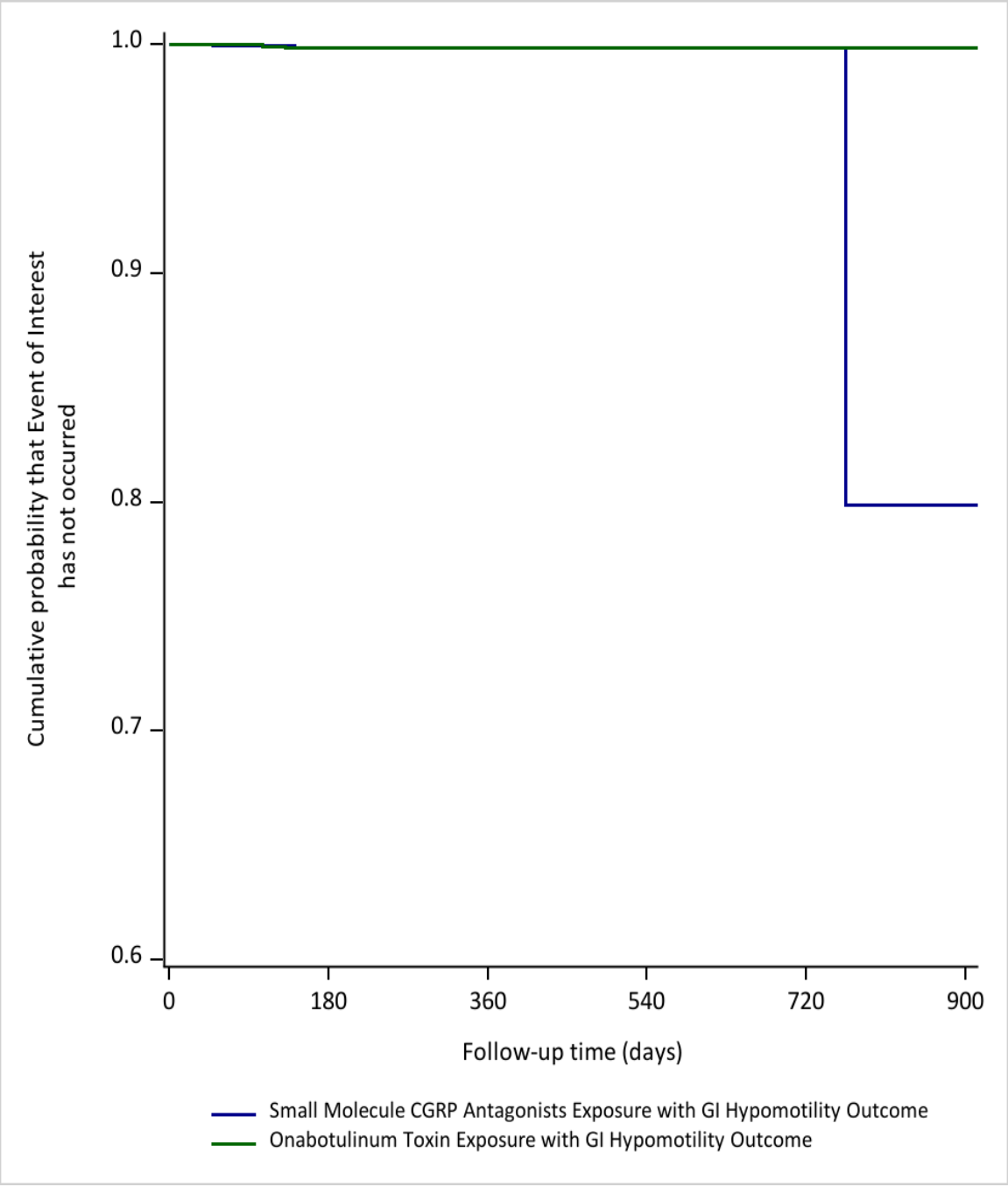


Figure 30c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome from the Unconditional Matched Population after Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with GI Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

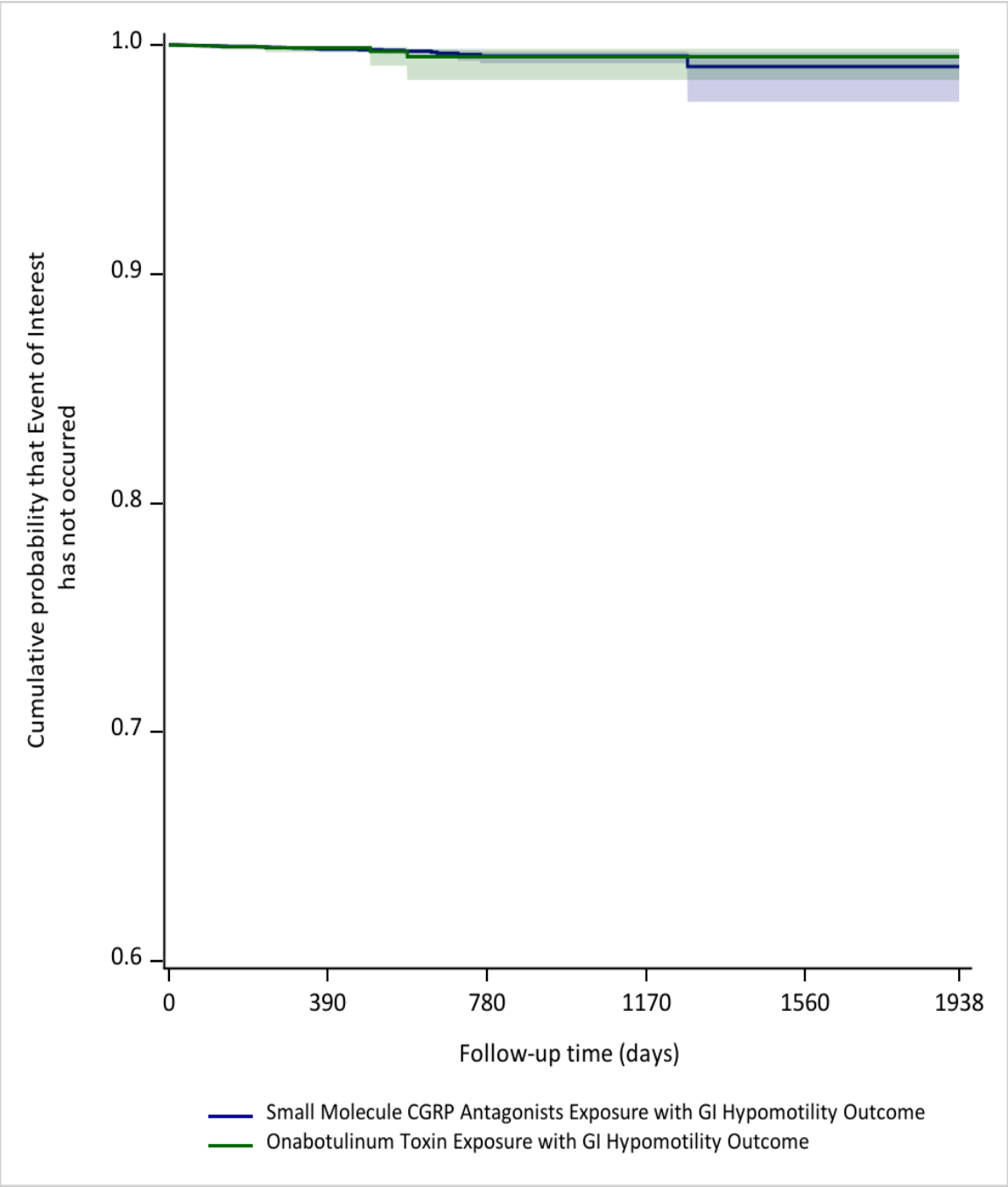


Figure 31a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

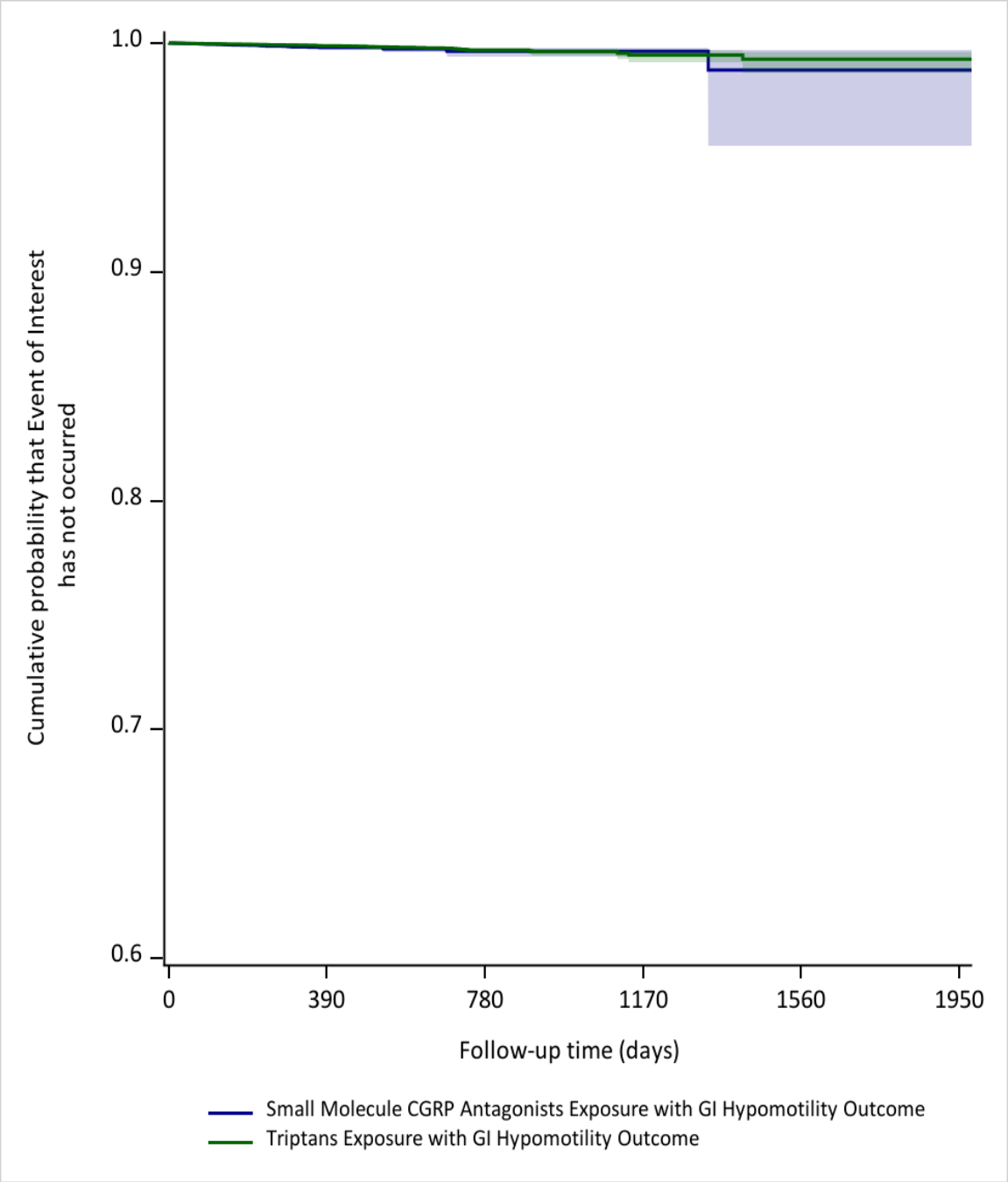


Figure 31b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome from the Conditional Matched Population after Small Molecule CGRP Antagonists-Triptans Exposure with GI Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

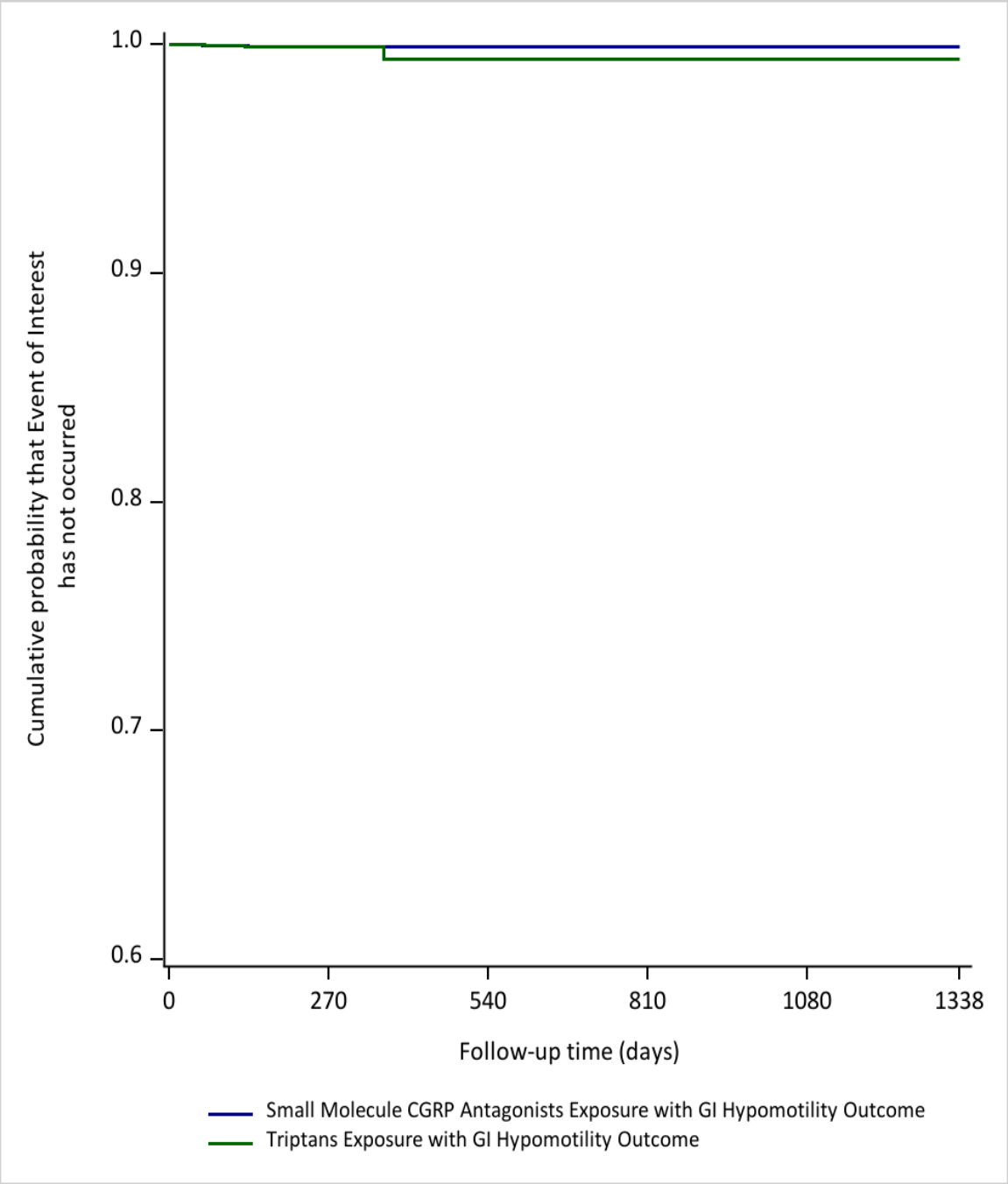


Figure 31c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Gastrointestinal Hypomotility Outcome from the Unconditional Matched Population after Small Molecule CGRP Antagonists-Triptans Exposure with GI Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

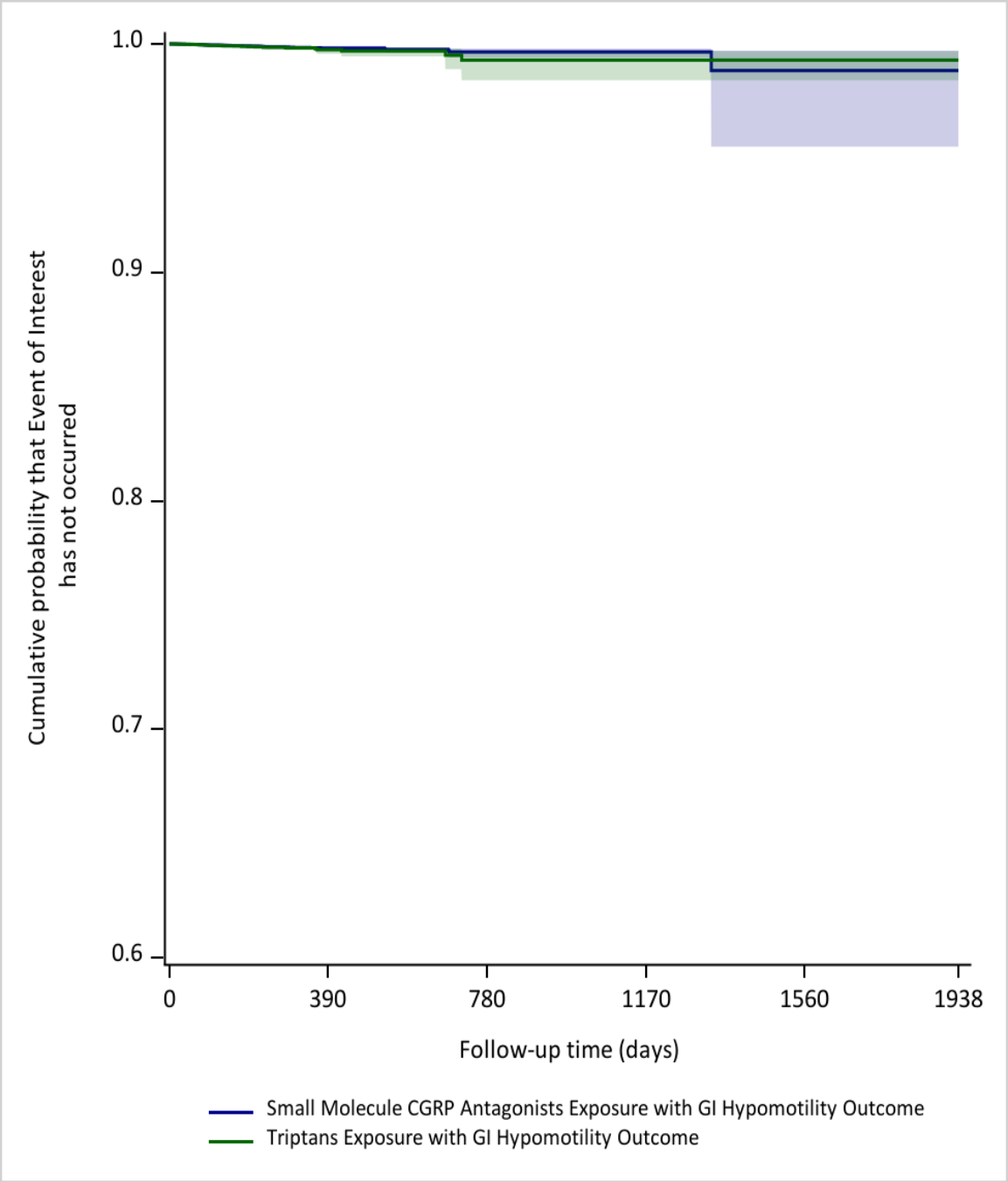


Figure 32a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

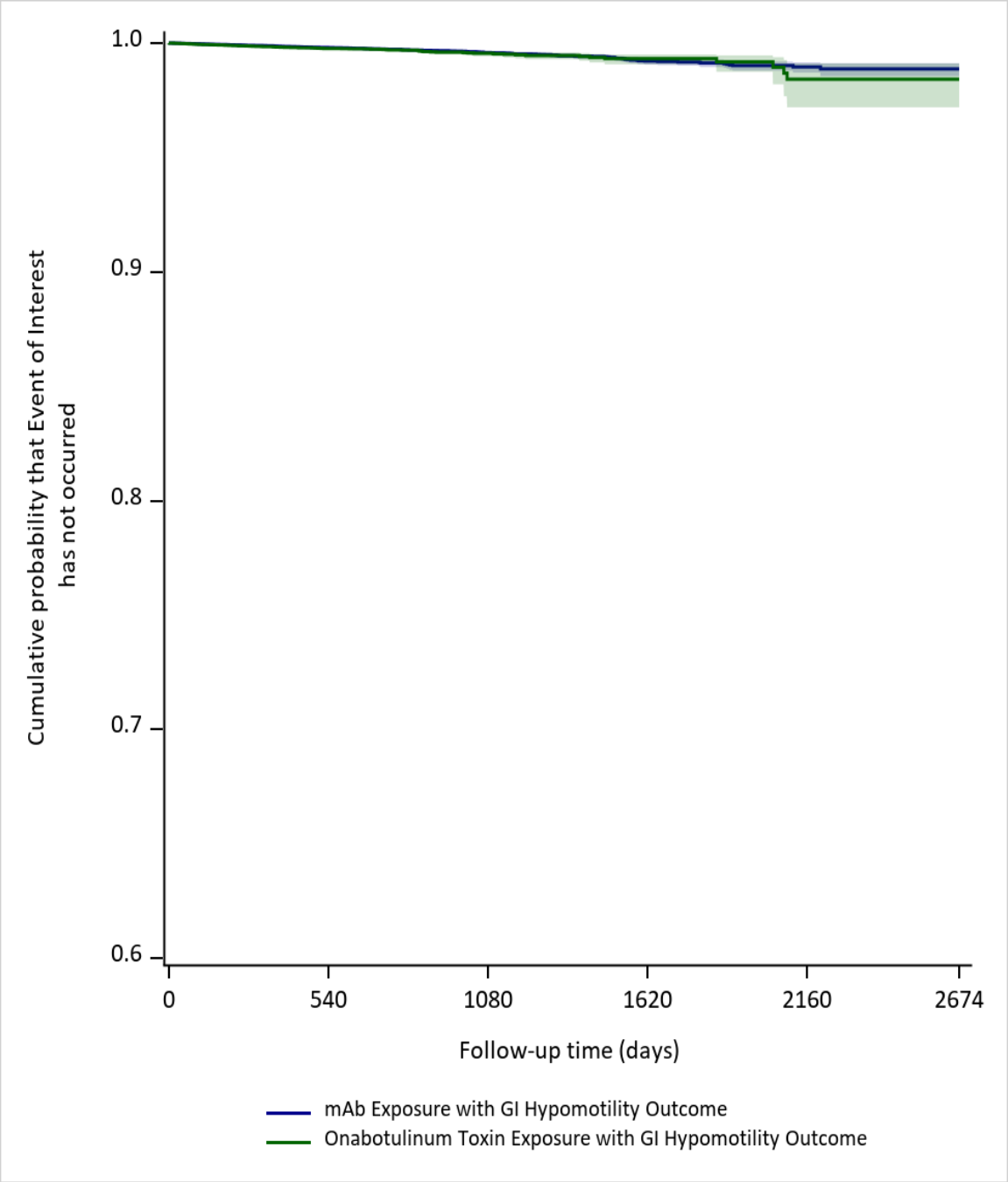


Figure 32b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome from the Conditional Matched Population after mAb-Onabotulinum Toxin Exposure with GI Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

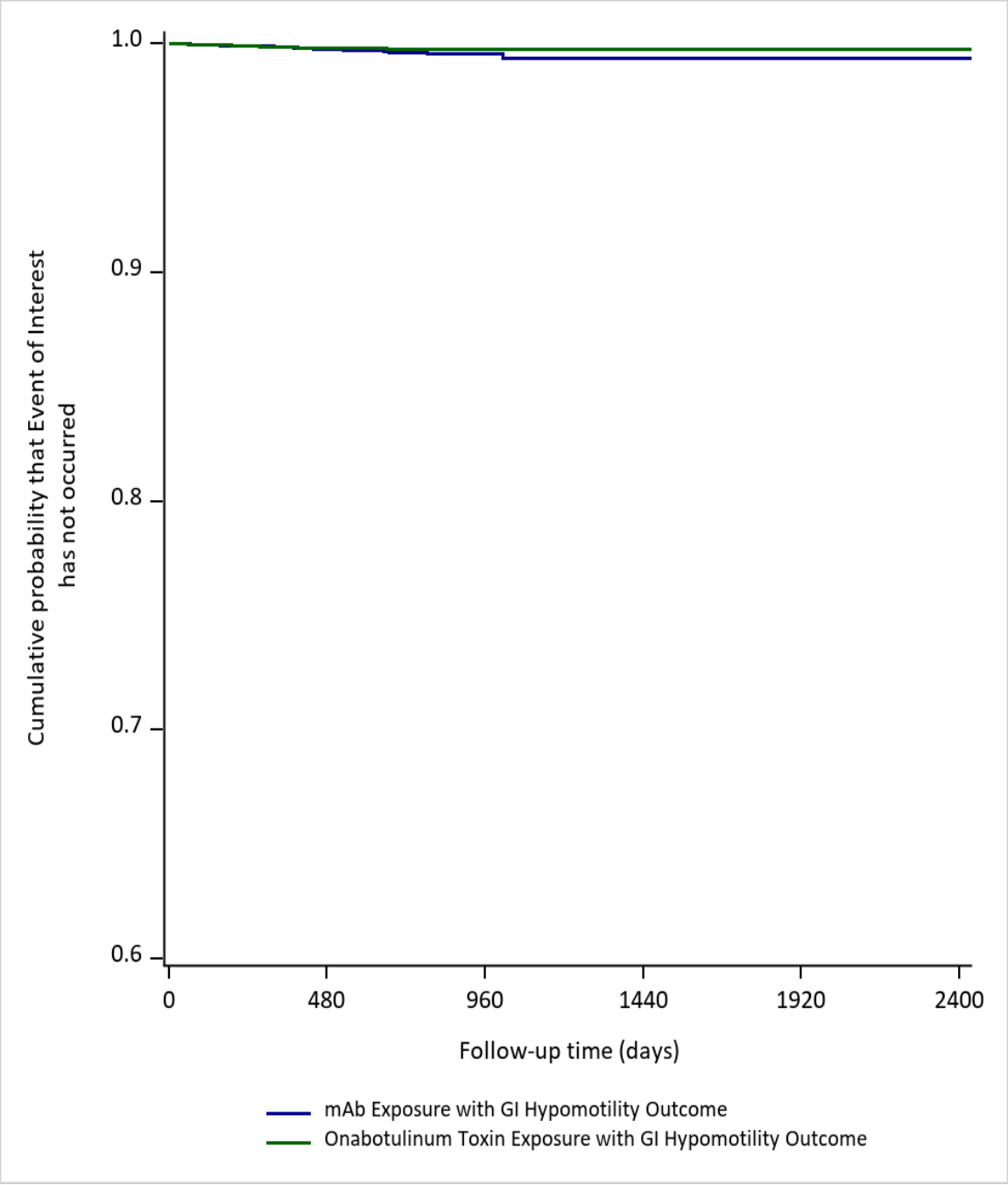


Figure 32c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Gastrointestinal Hypomotility Outcome from the Unconditional Matched Population after mAb-Onabotulinum Toxin Exposure with GI Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

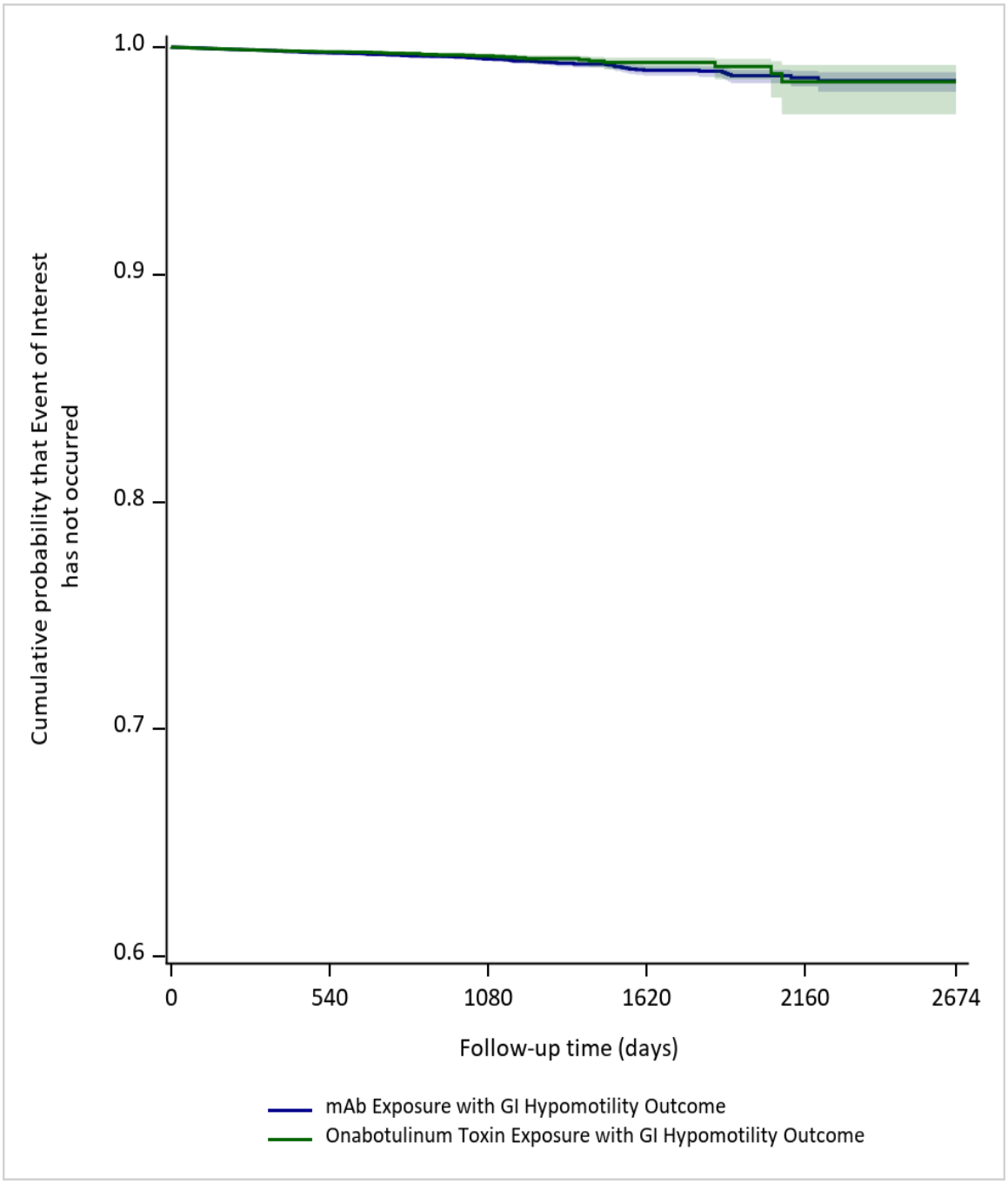


Figure 33a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

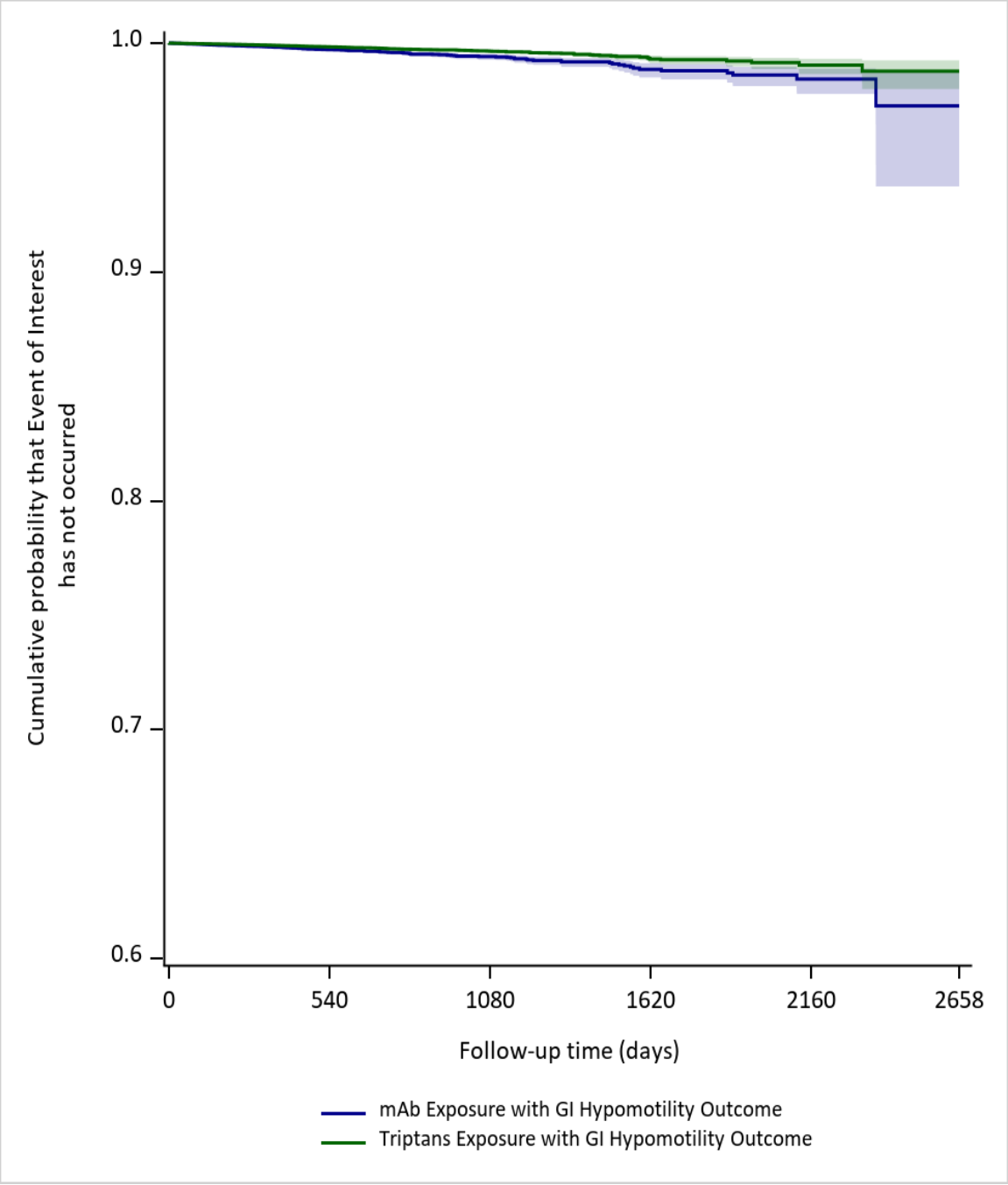


Figure 33b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among mAb-Triptans Exposure with GI Hypomotility Outcome from the Conditional Matched Population after mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

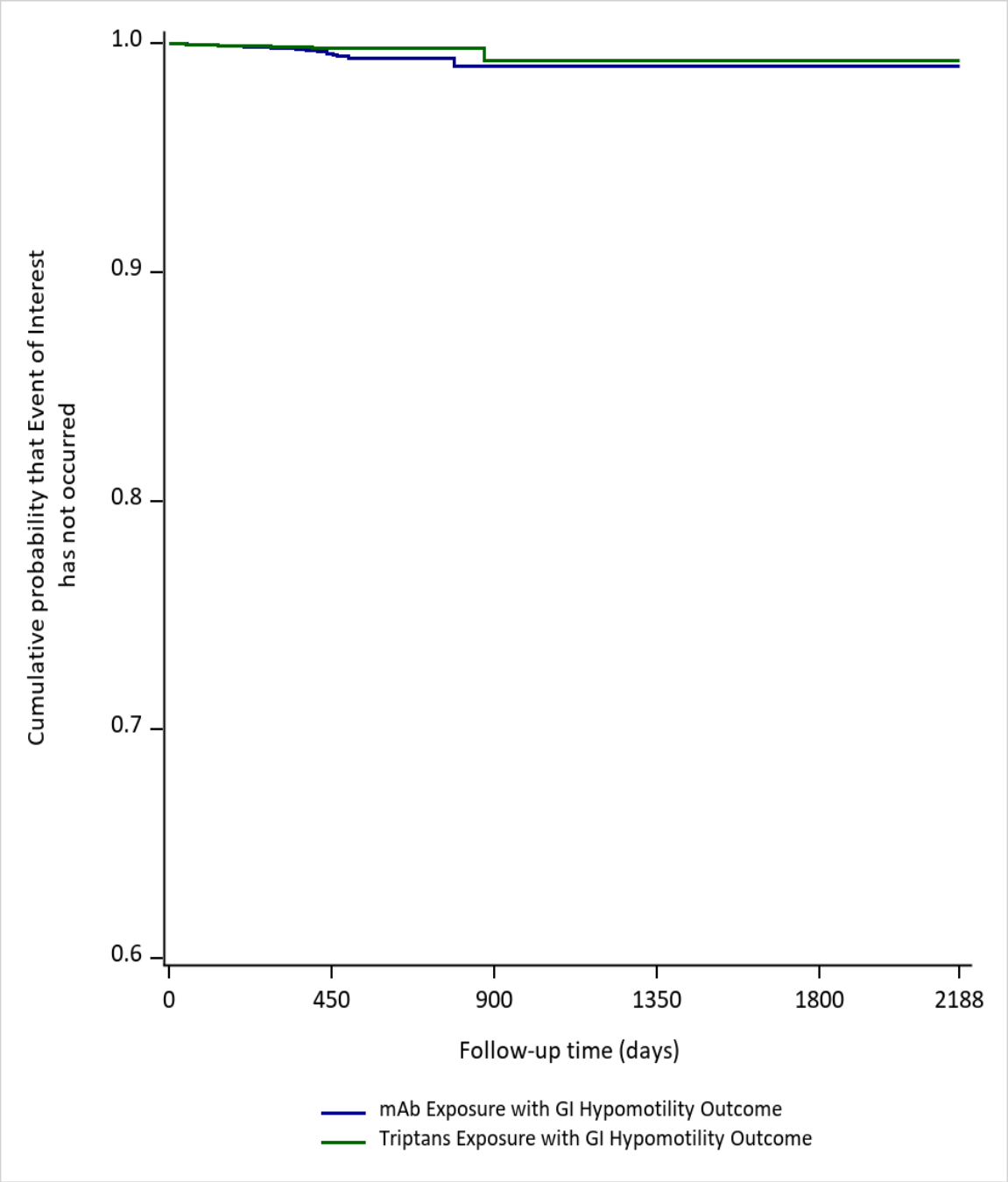


Figure 33c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Triptans Exposure with Gastrointestinal Hypomotility Outcome from the Unconditional Matched Population after mAb-Triptans Exposure with GI Hypomotility Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

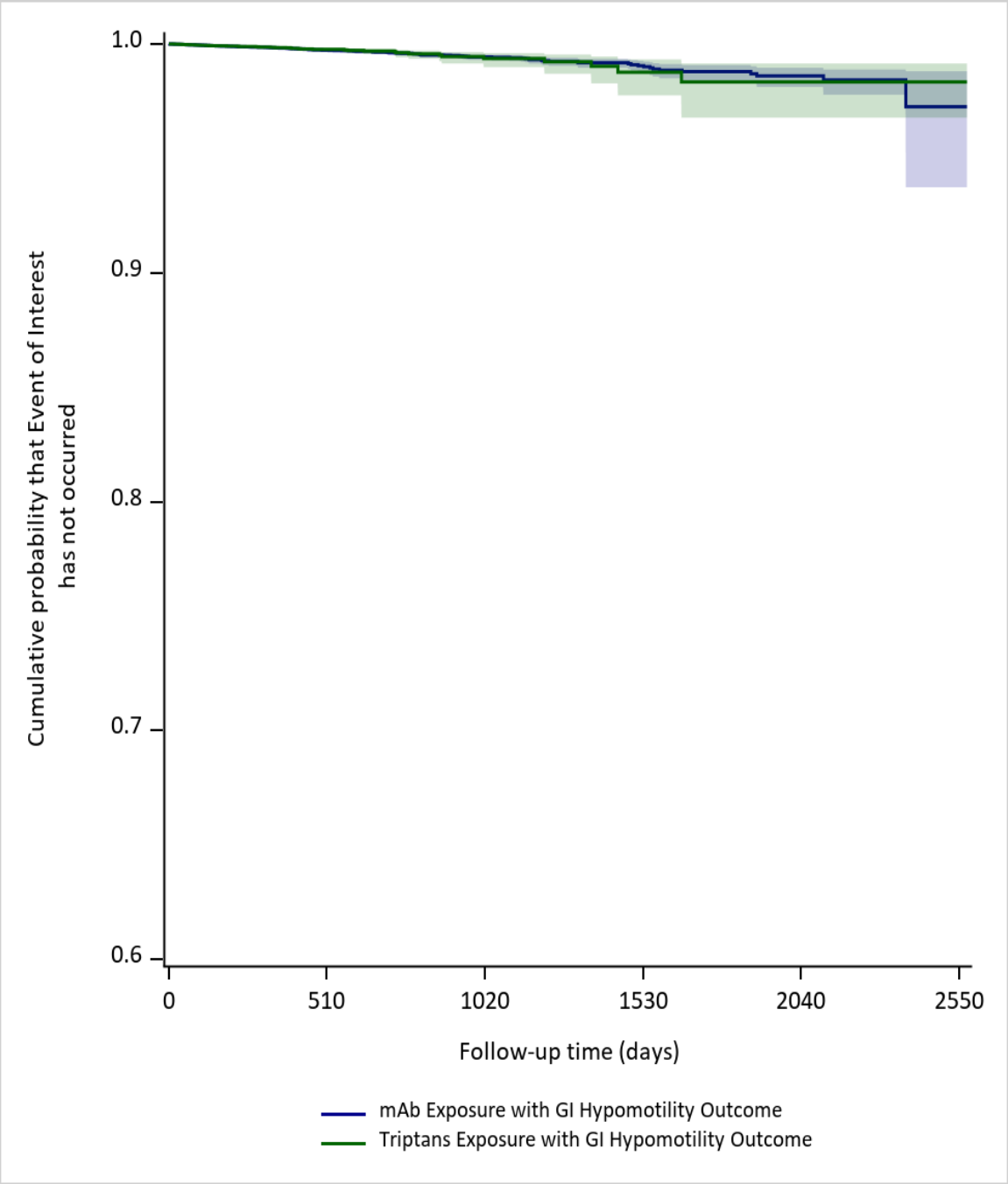


Figure 34a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

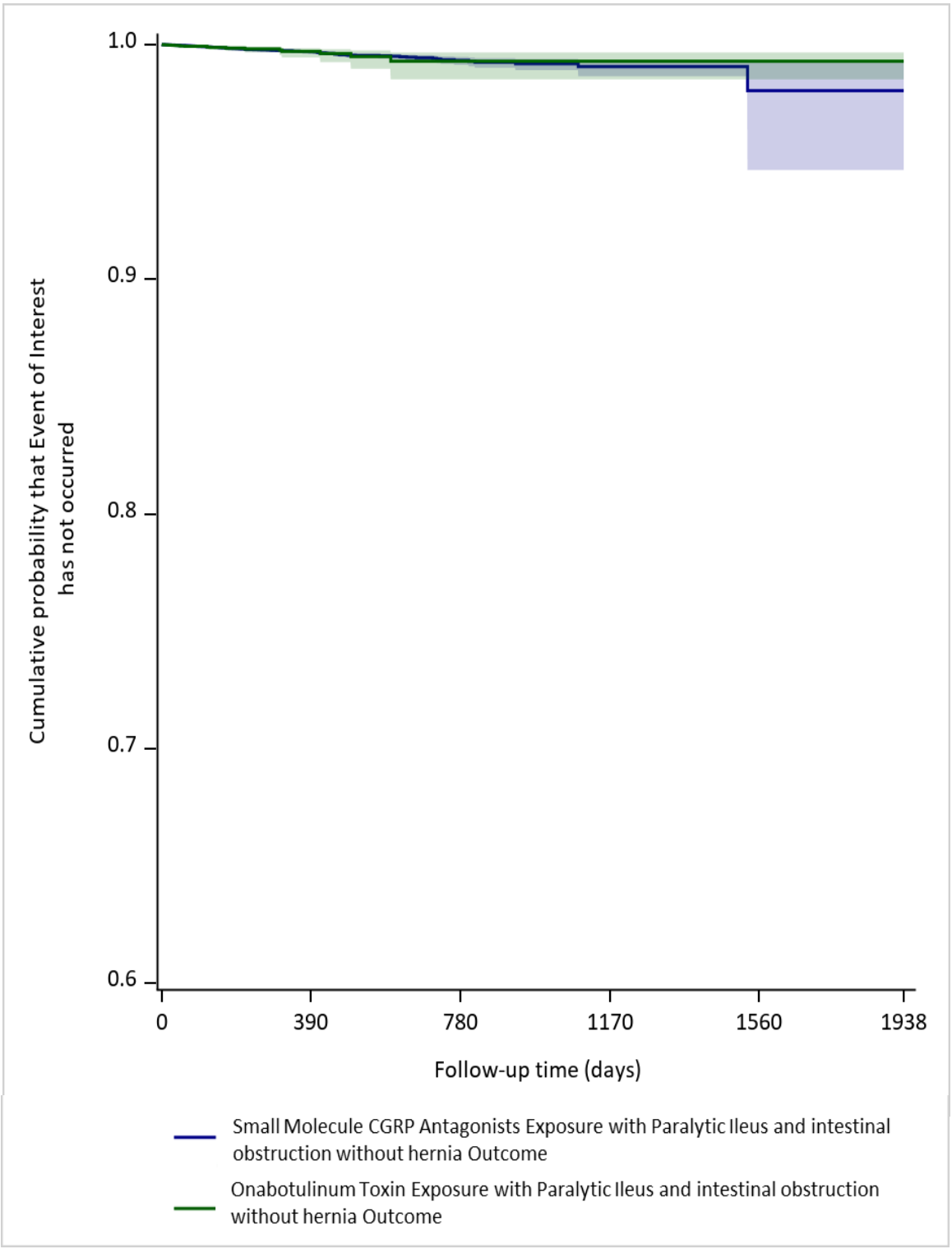


Figure 34b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Conditional Matched Population after Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

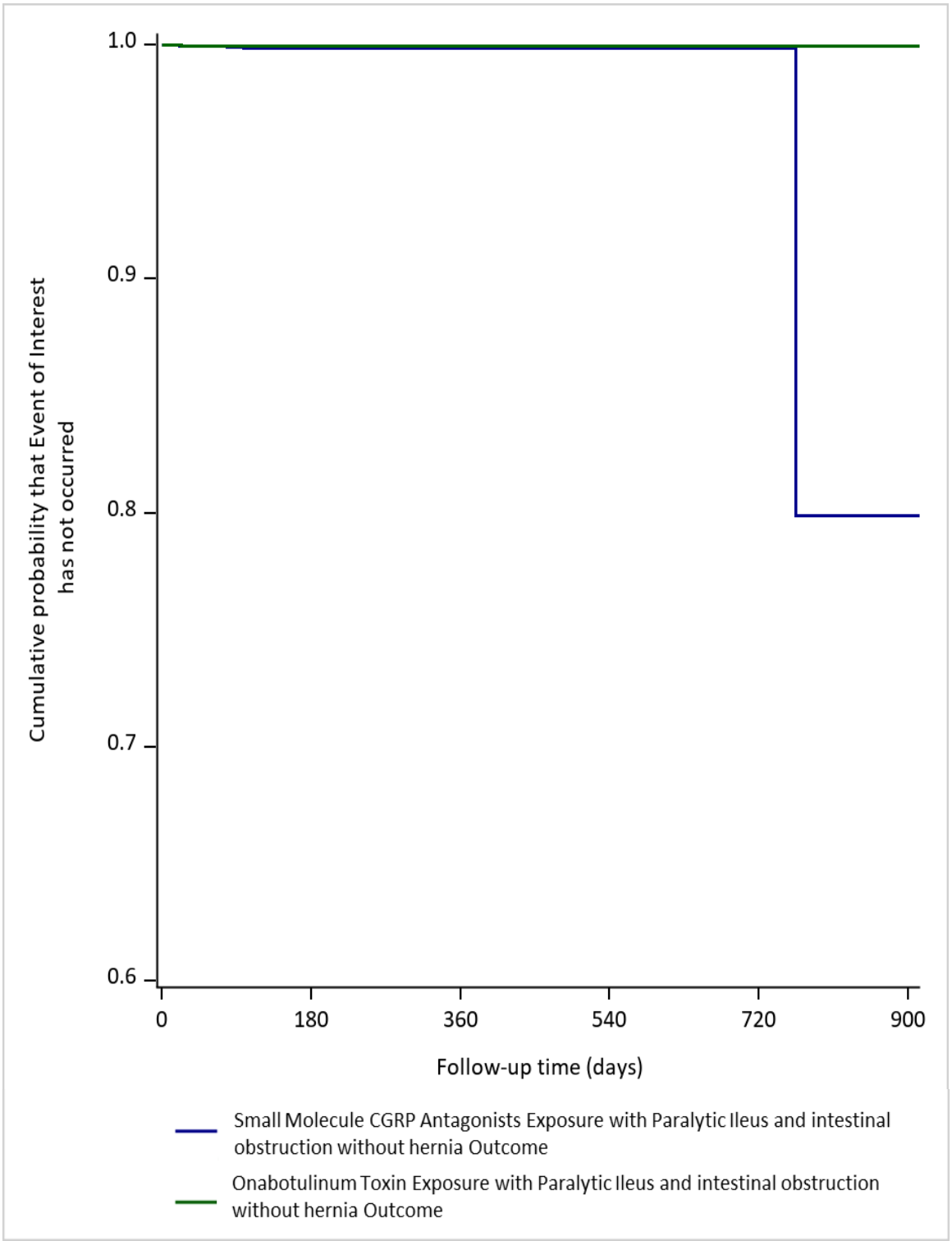


Figure 34c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Unconditional Matched Population after Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

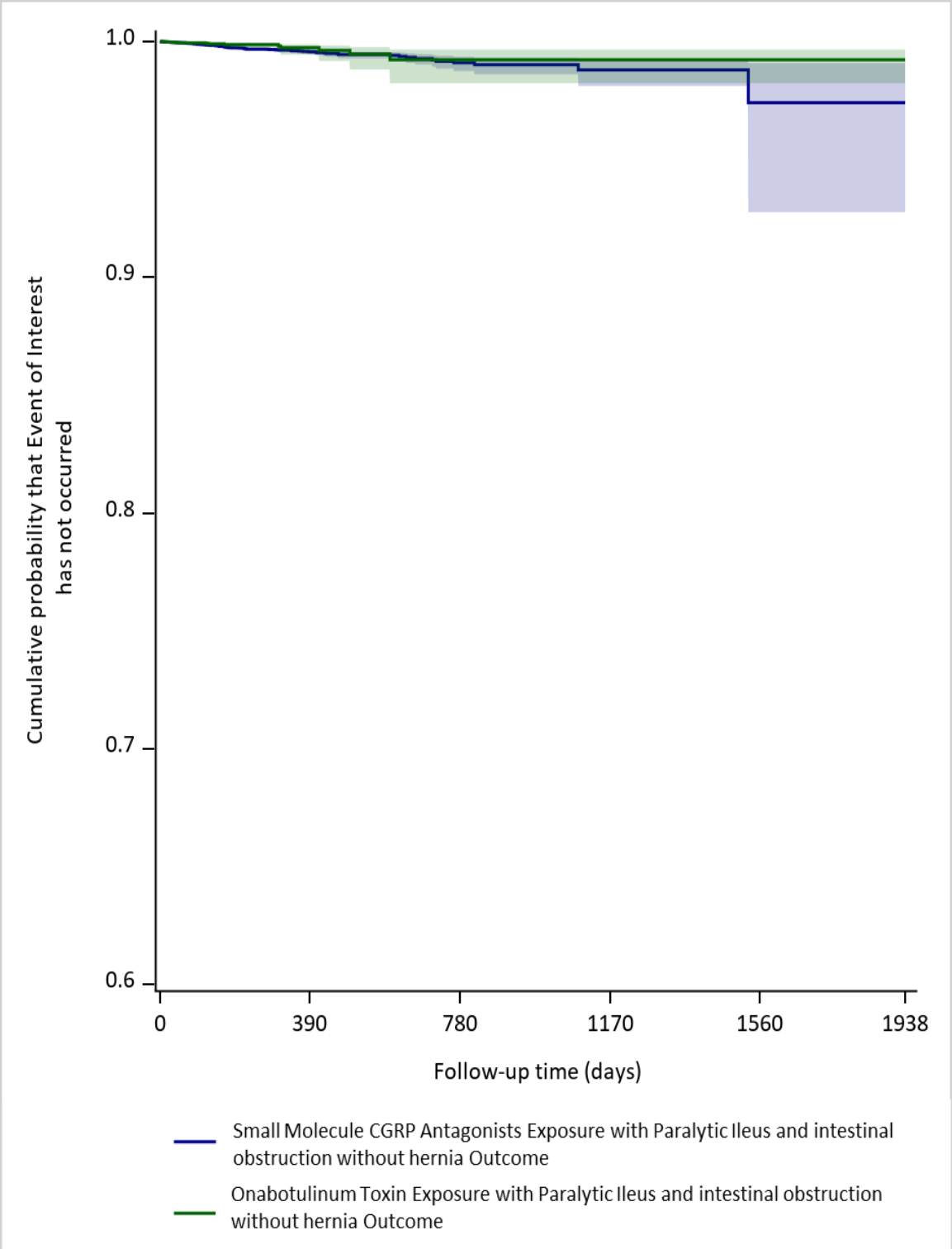


Figure 35a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

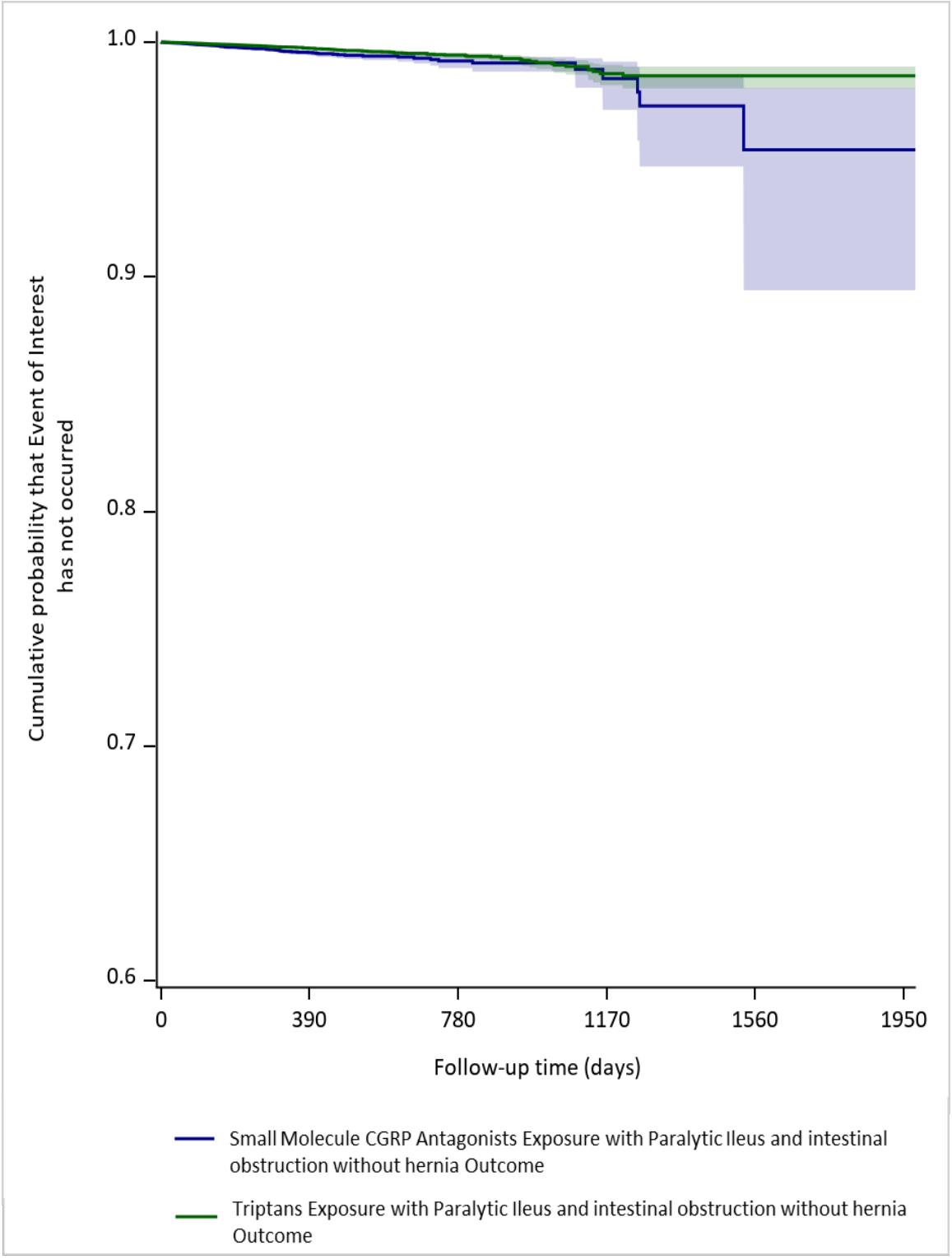


Figure 35b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Conditional Matched Population after Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

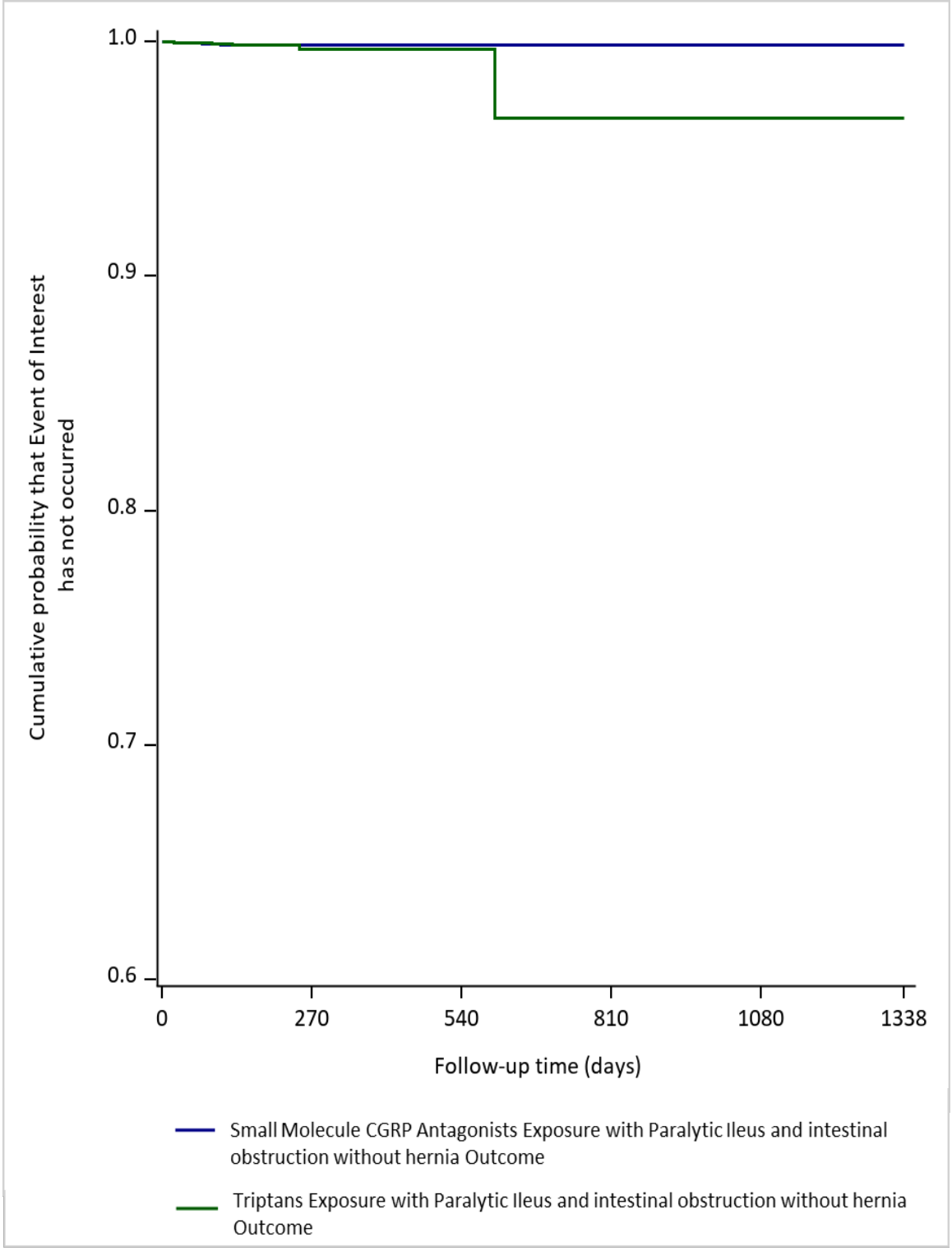


Figure 35c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Unconditional Matched Population after Small Molecule CGRP Antagonists-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

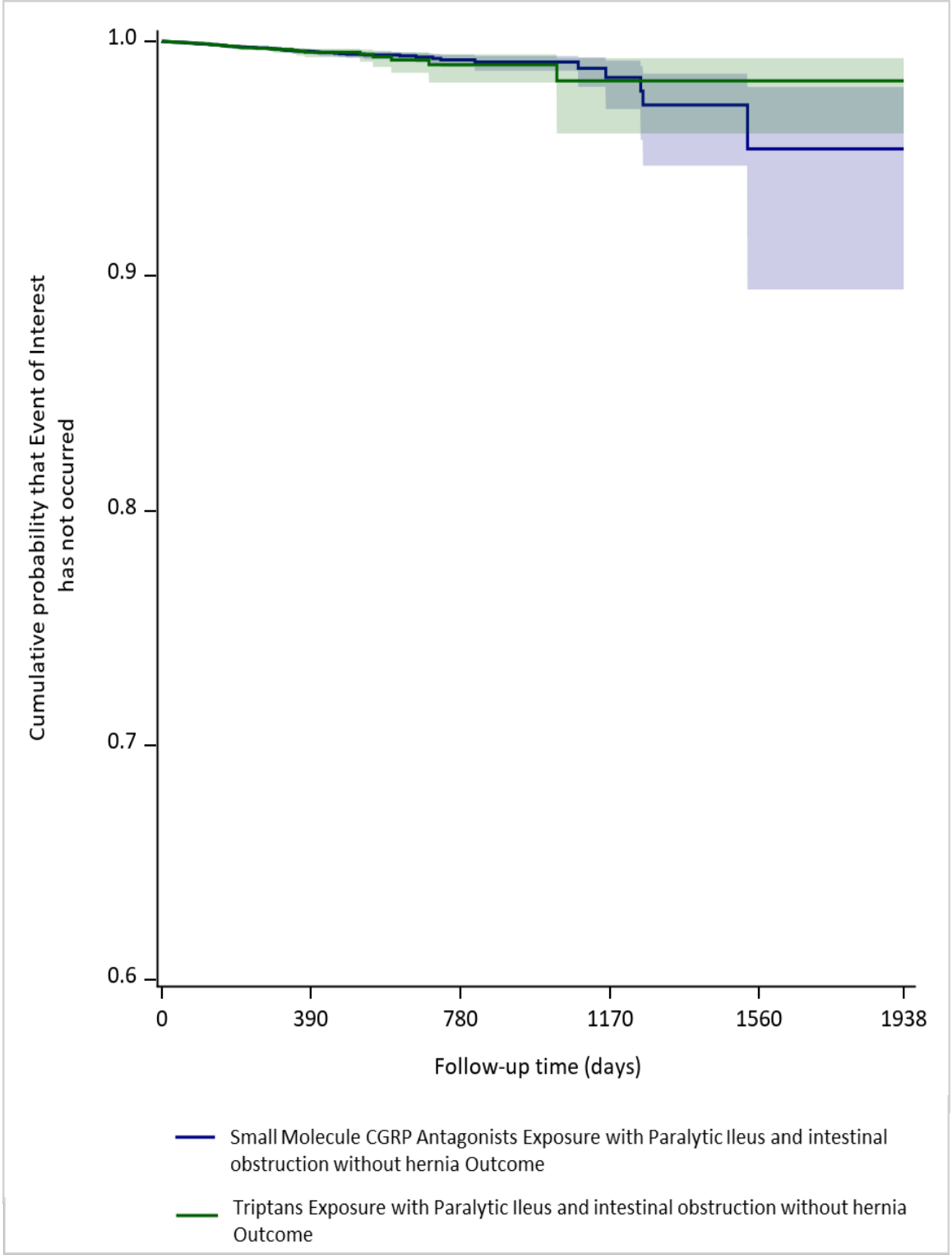


Figure 36a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

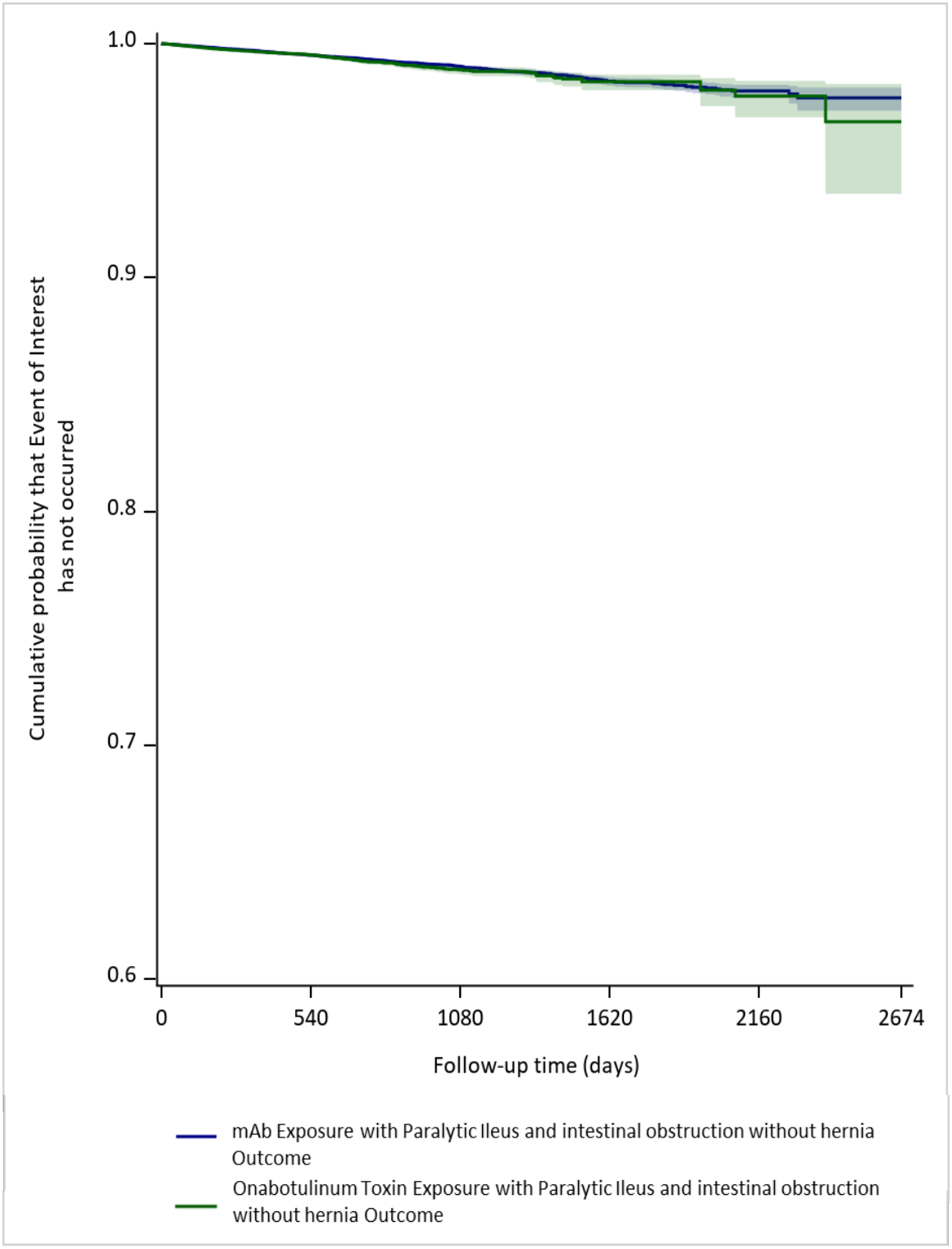


Figure 36b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Conditional Matched Population after mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

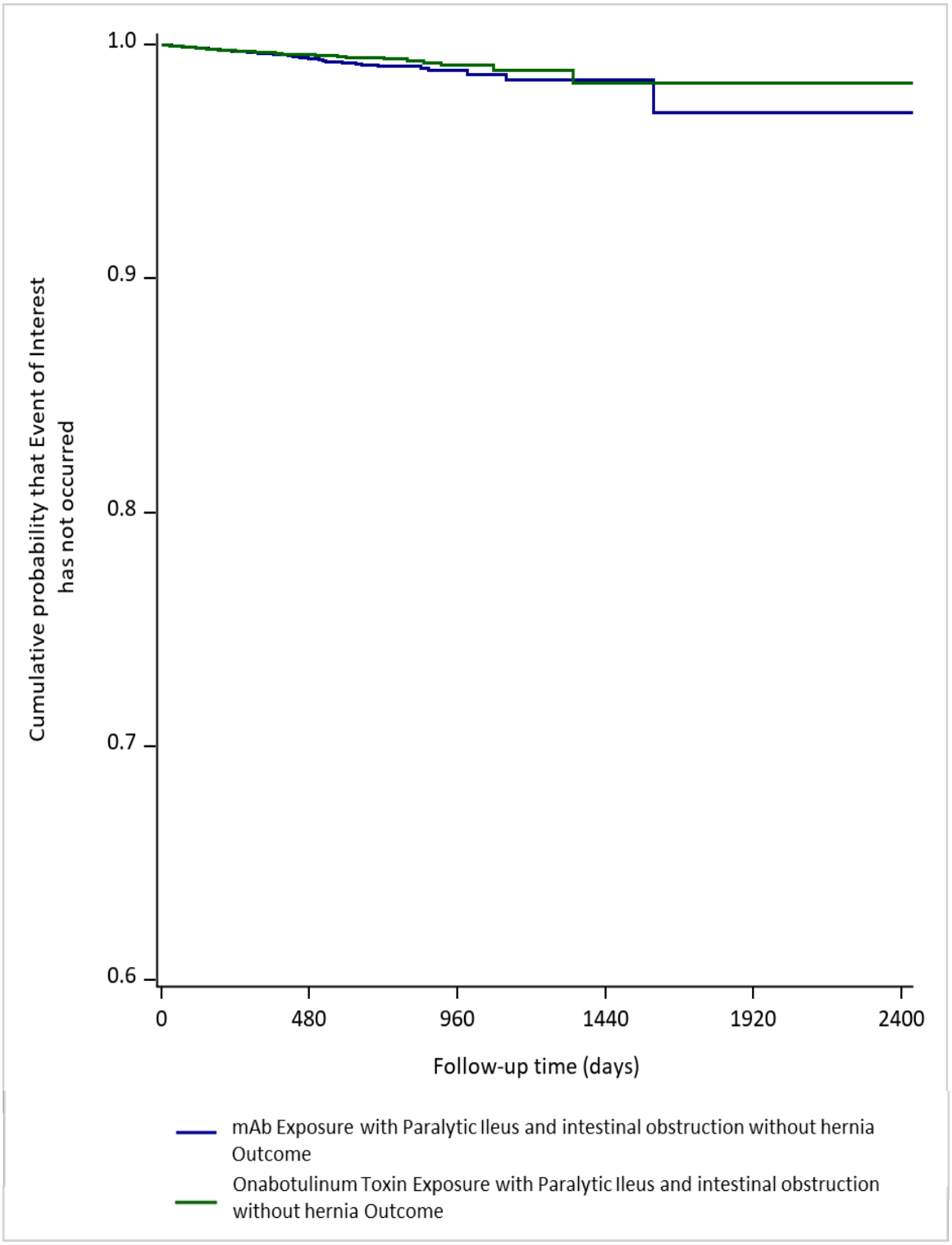


Figure 36c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Unconditional Matched Population after mAb-Onabotulinum Toxin Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

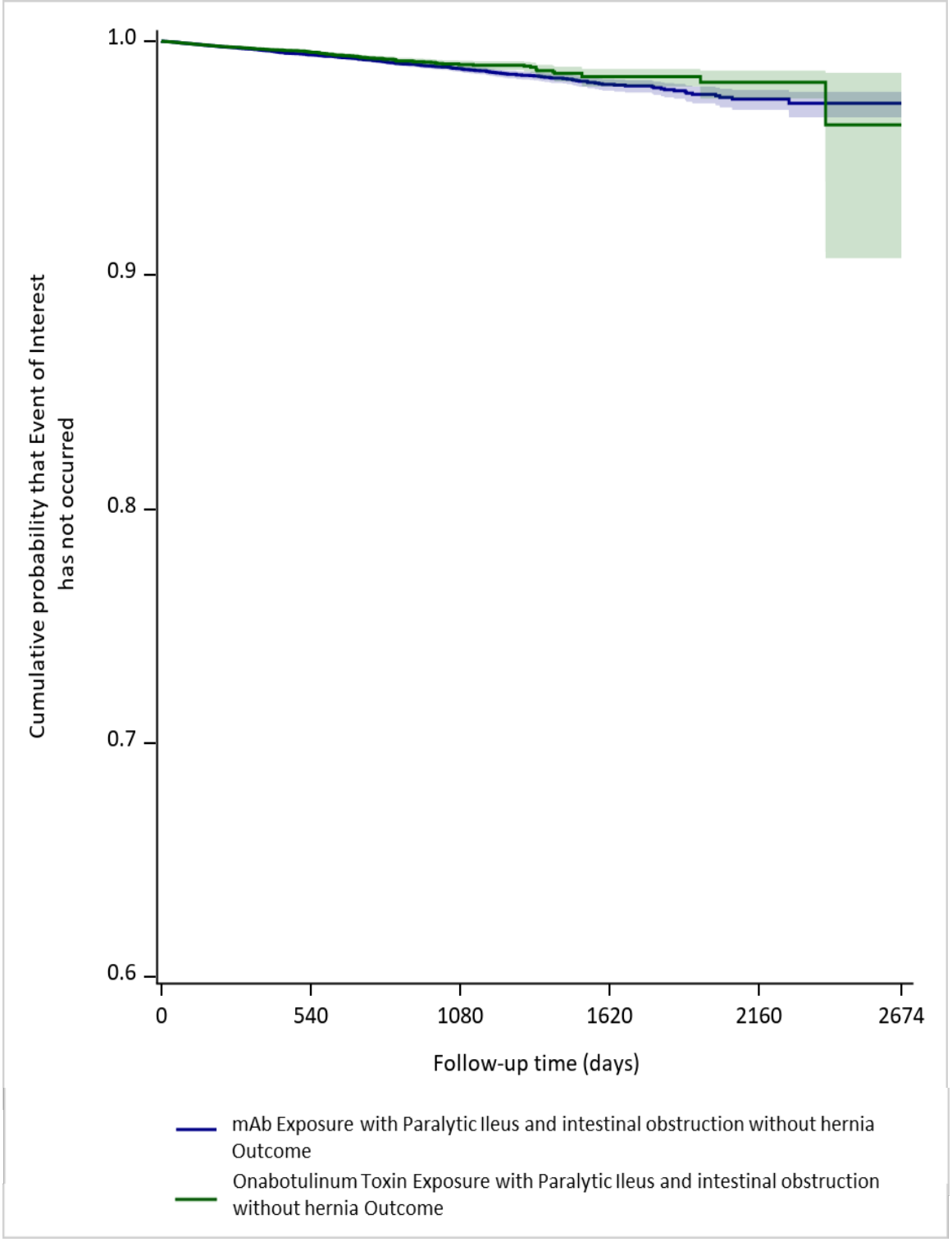


Figure 37a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

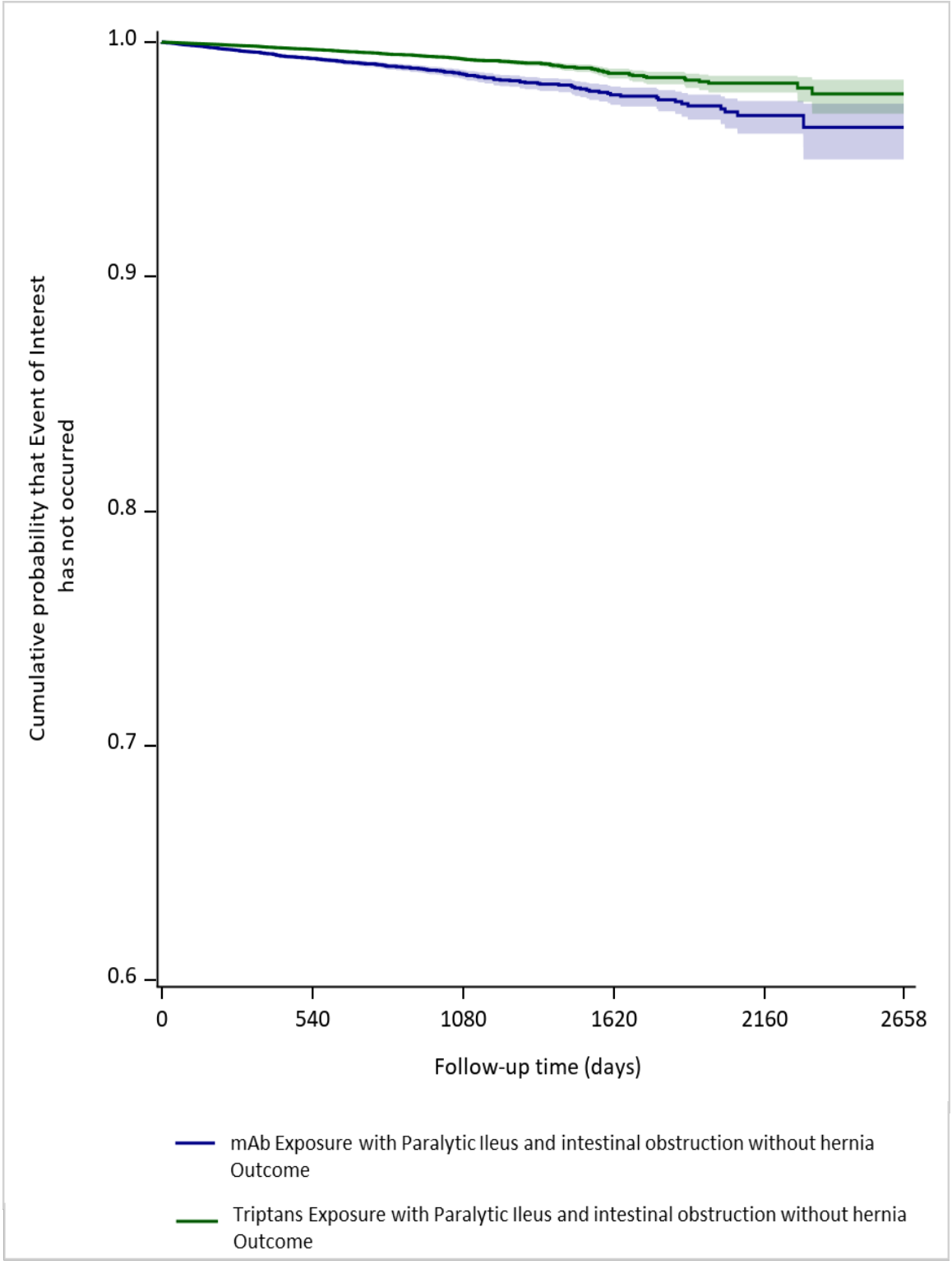


Figure 37b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Conditional Matched Population after mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

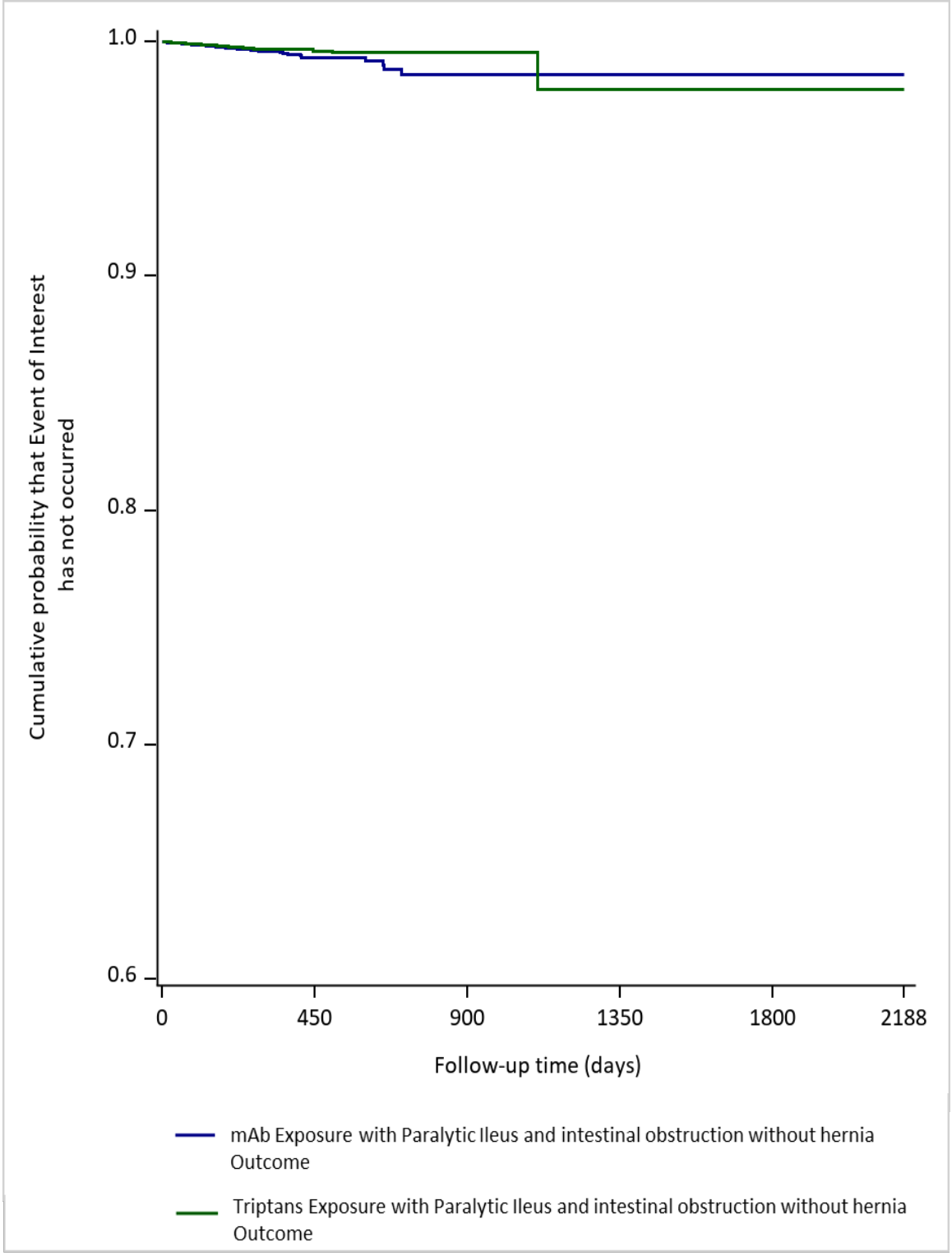


Figure 37c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome from the Unconditional Matched Population after mAb-Triptans Exposure with Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

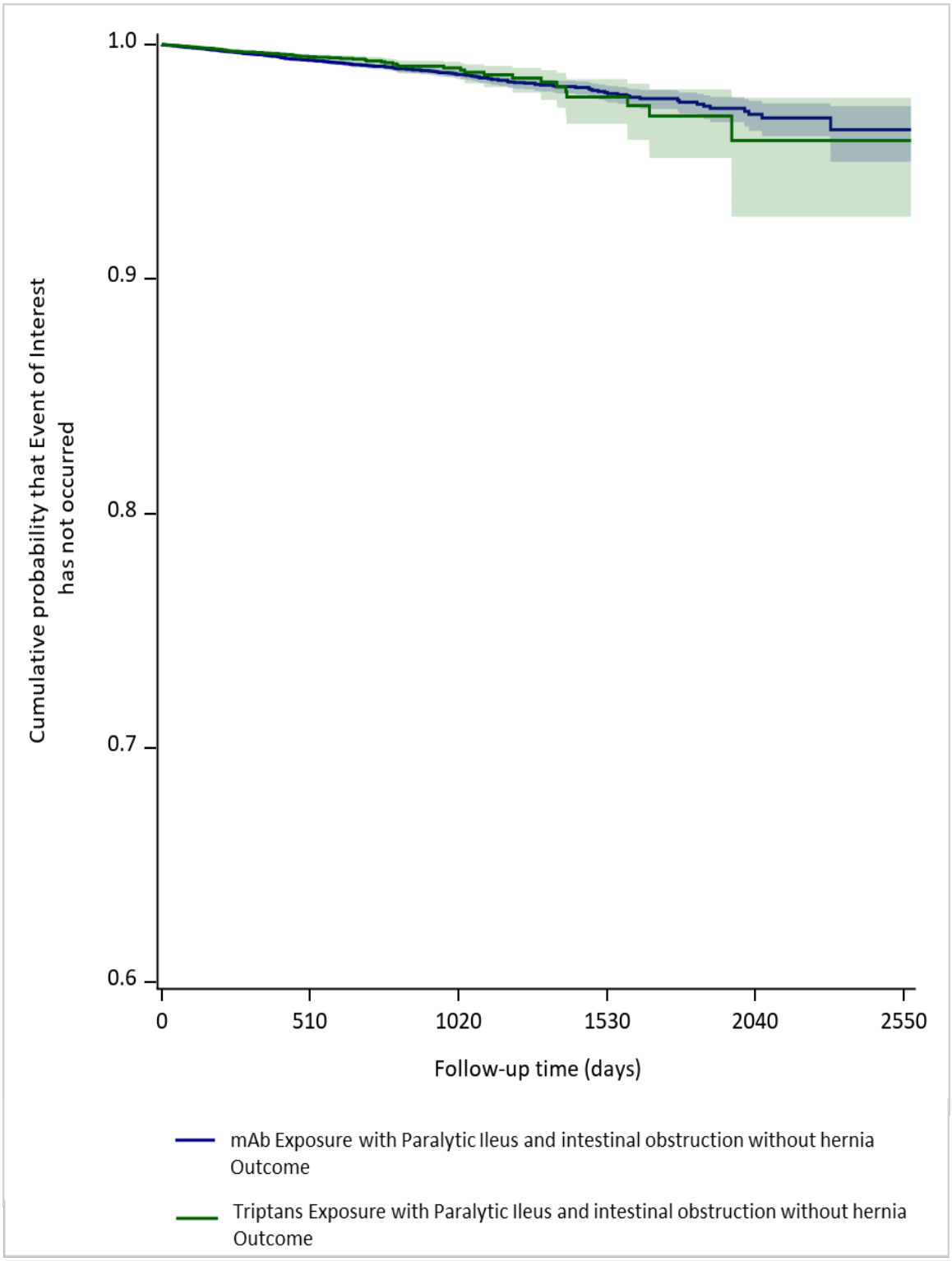


Figure 38a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

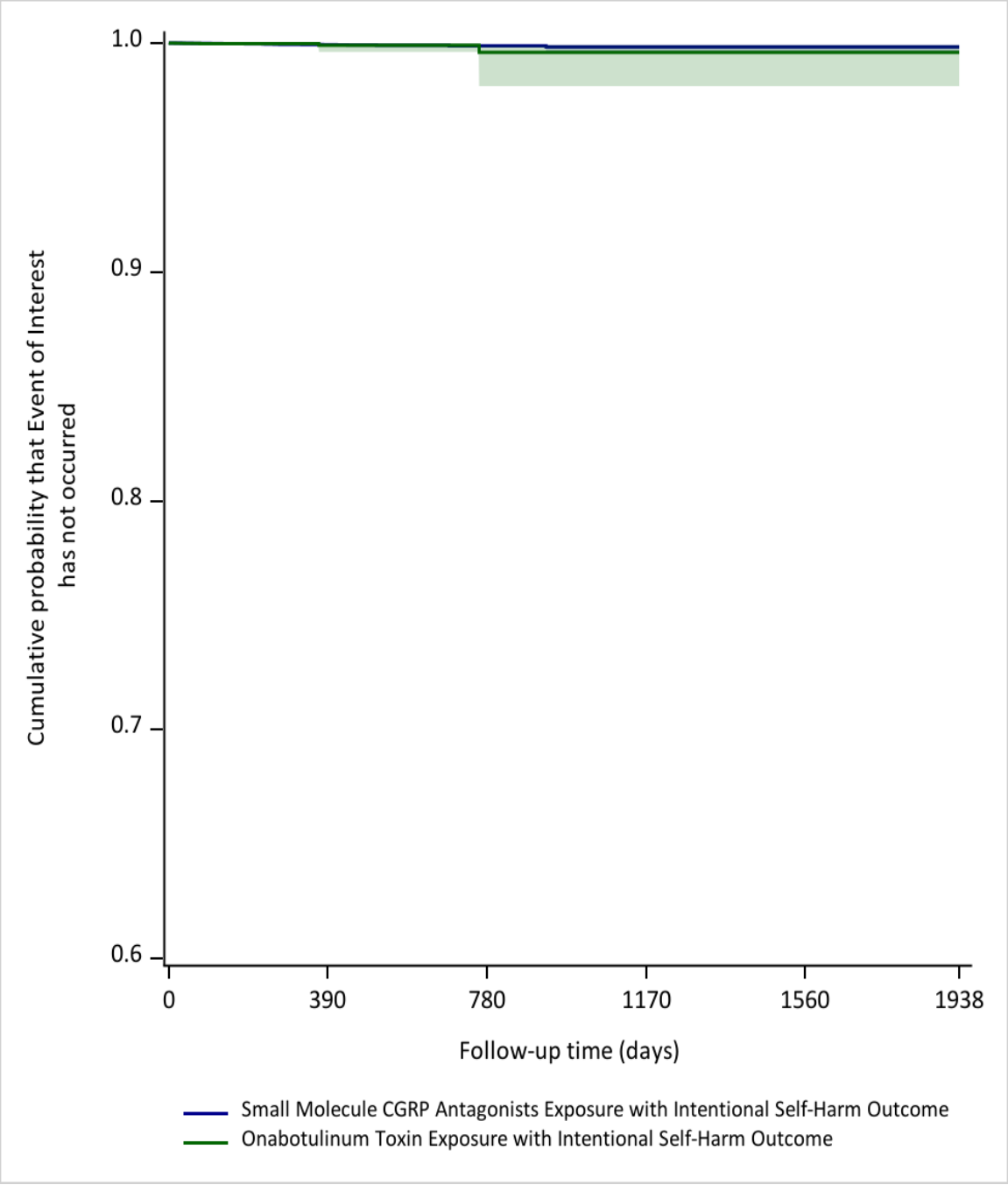


Figure 38b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome from the Conditional Matched Population after Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

Figure cannot be shown due to a low number of outcomes.

Figure 38c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome from the Unconditional Matched Population after Small Molecule CGRP Antagonists-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

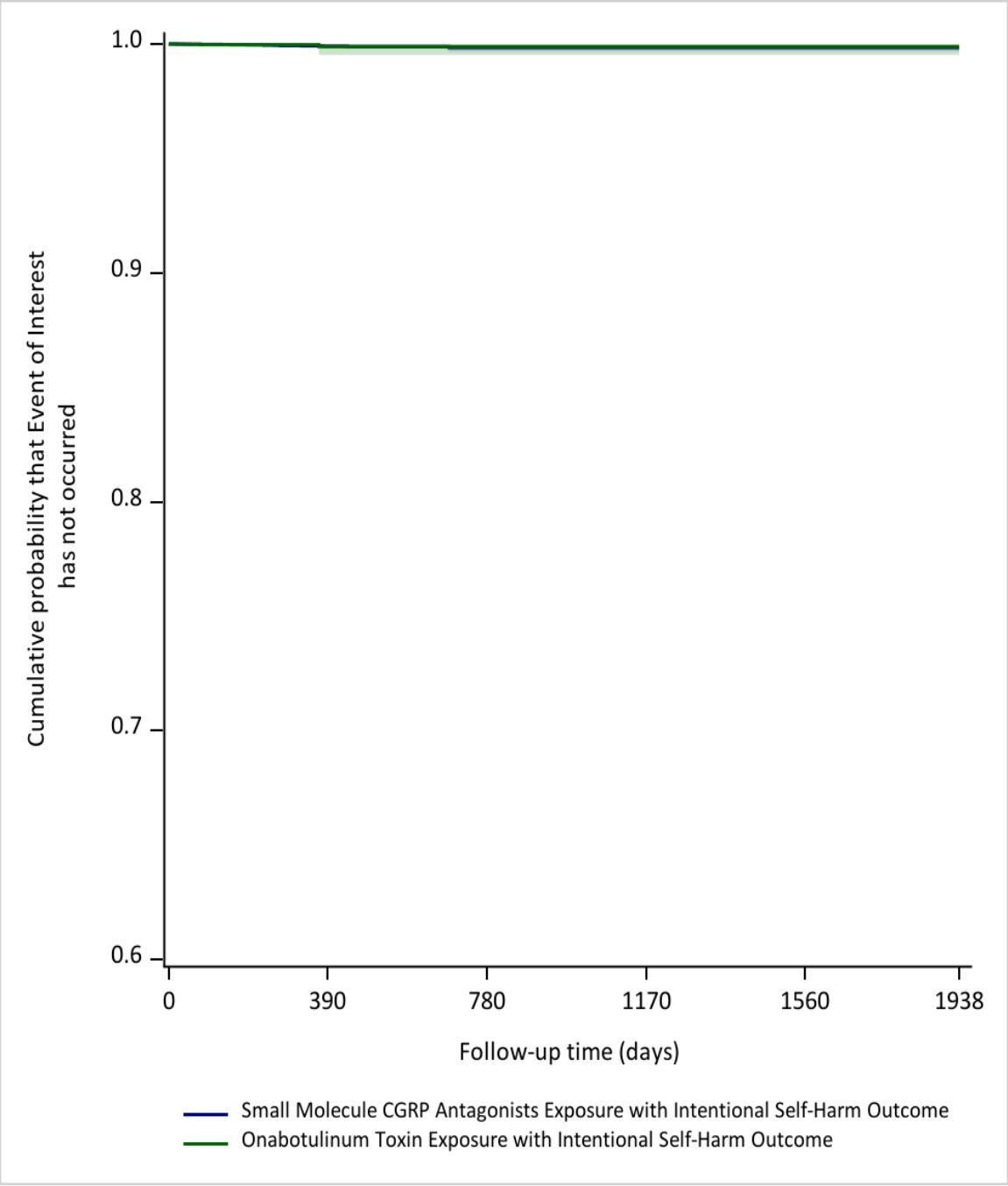


Figure 39a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

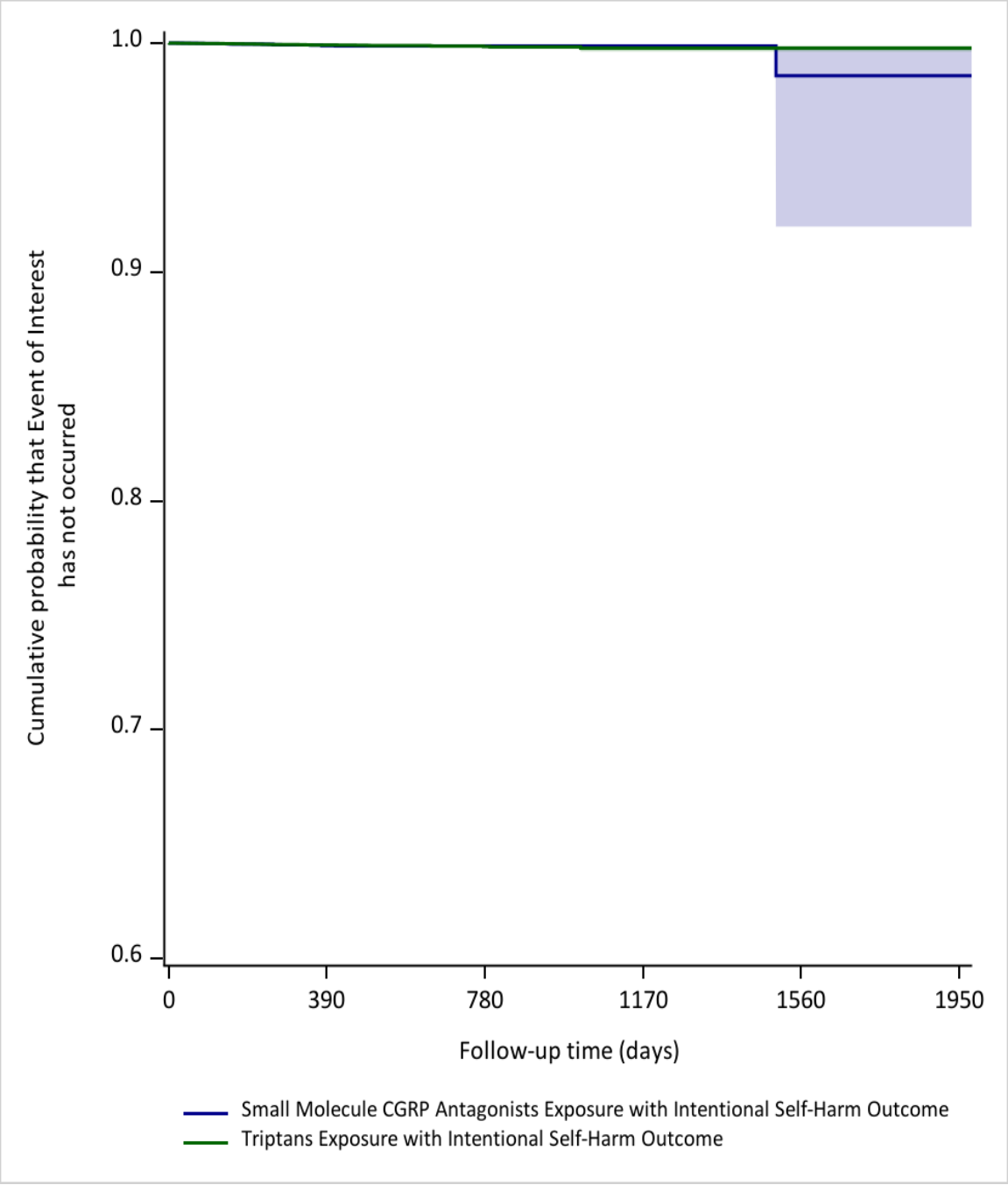


Figure 39b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome from the Conditional Matched Population after Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

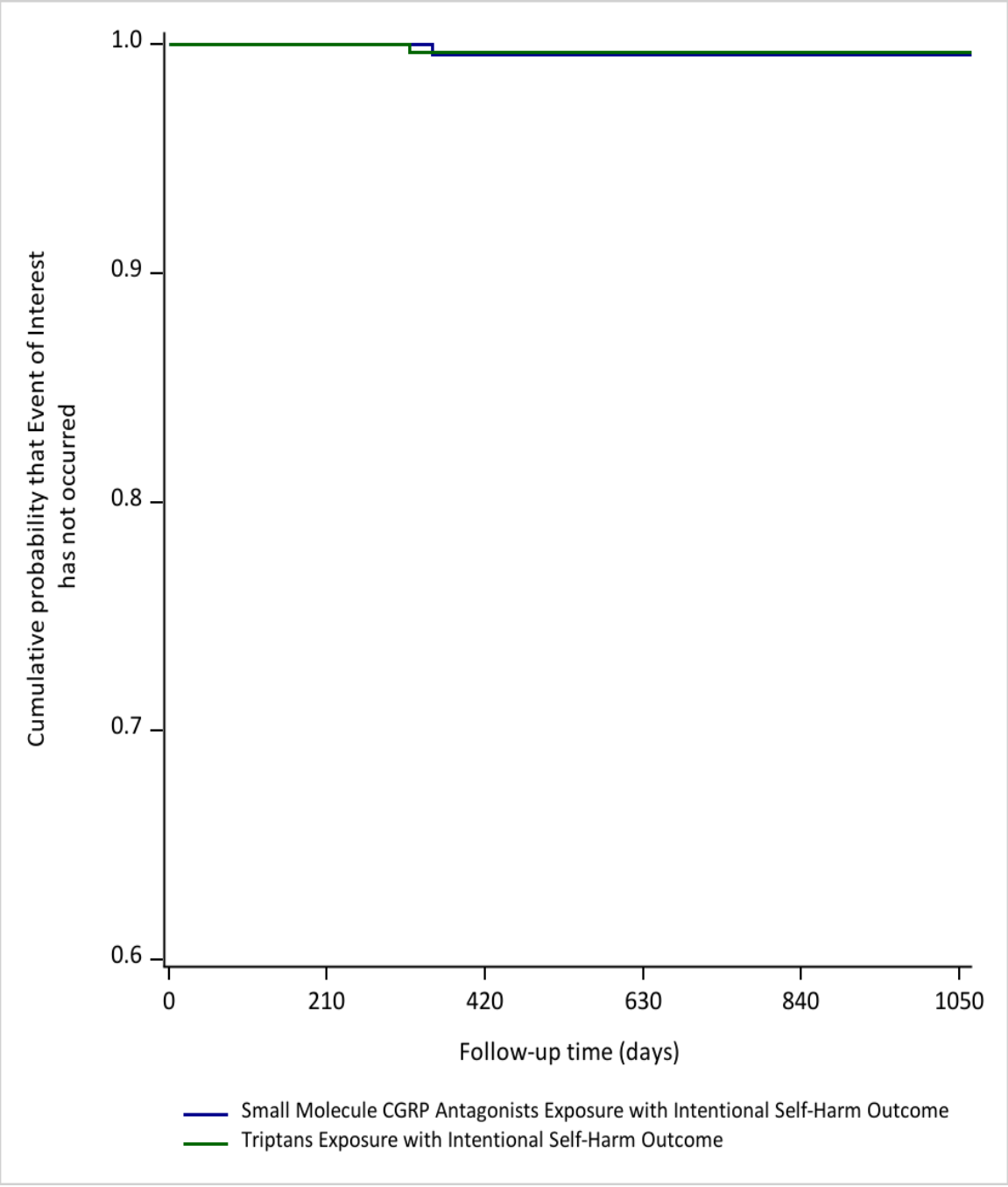


Figure 39c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome from the Unconditional Matched Population after Small Molecule CGRP Antagonists-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

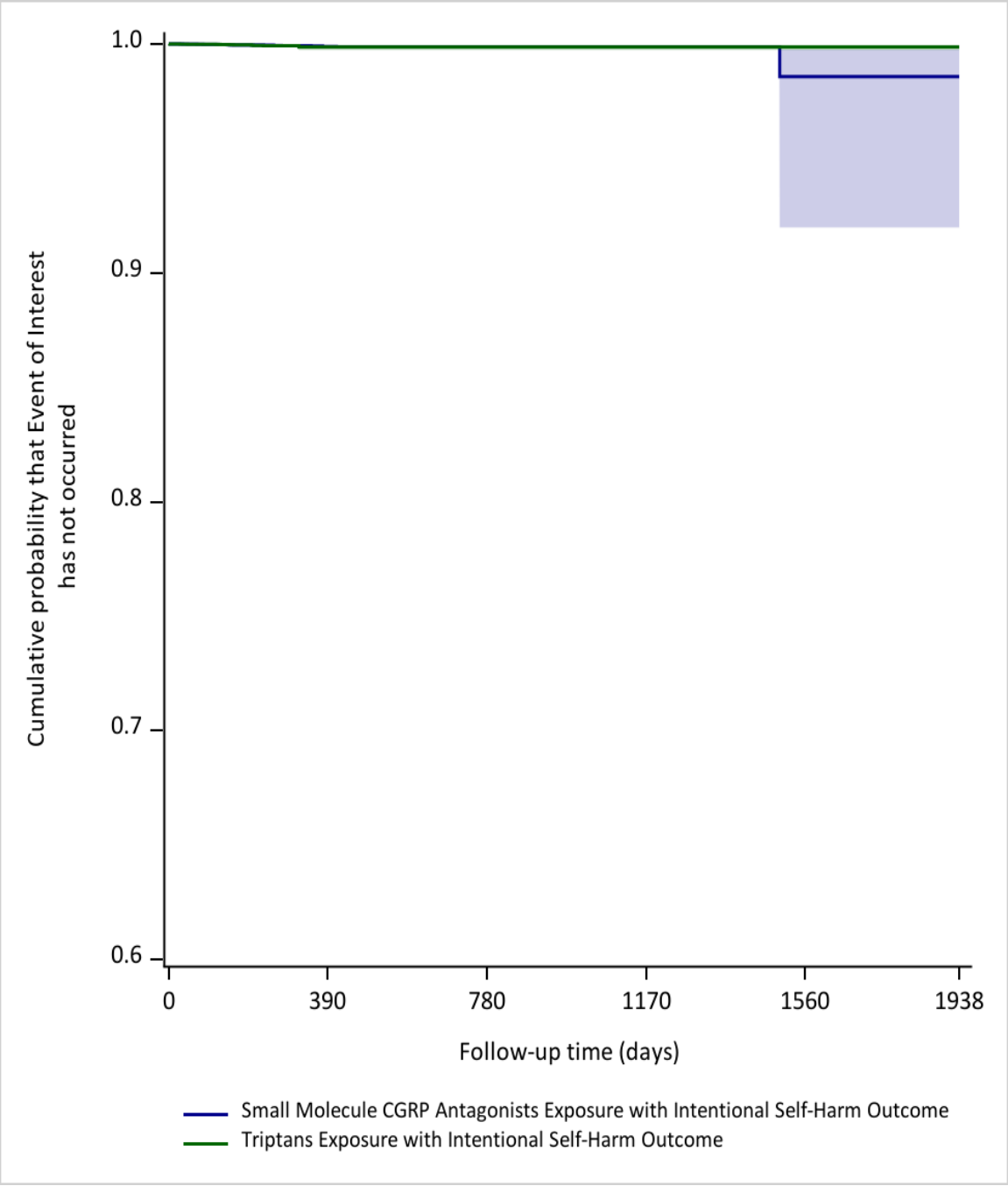


Figure 40a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

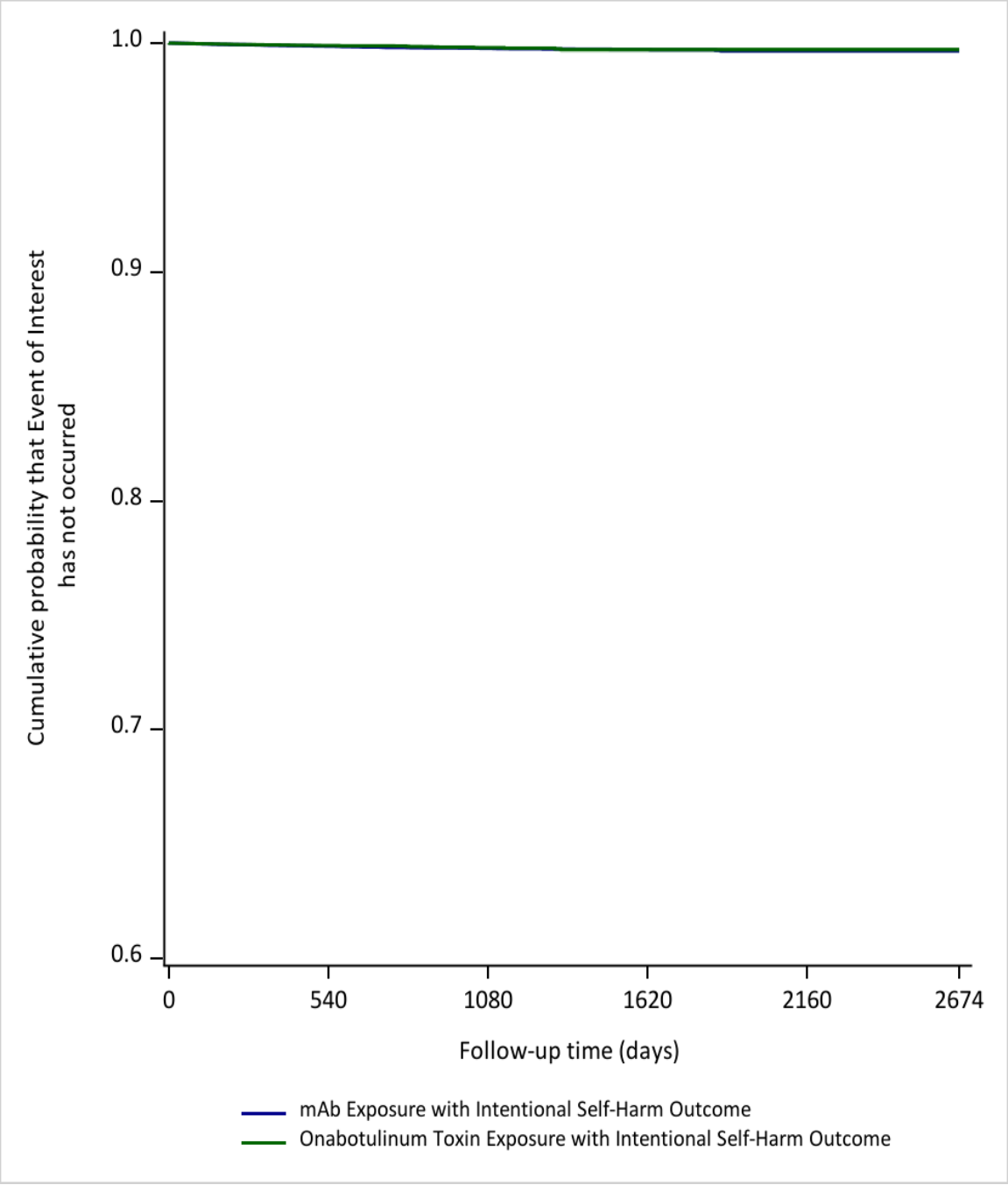


Figure 40b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome from the Conditional Matched Population after mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

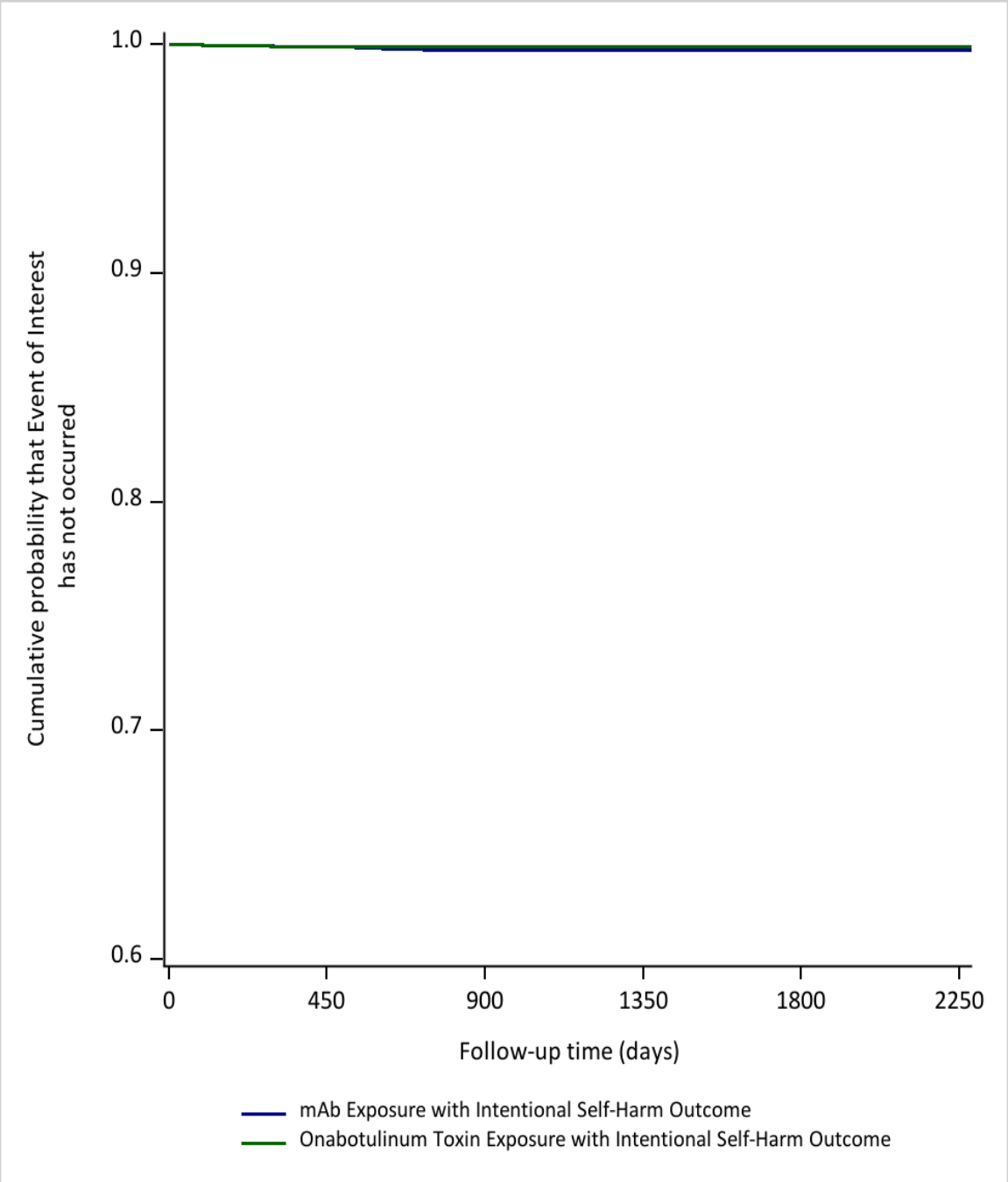


Figure 40c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome from the Unconditional Matched Population after mAb-Onabotulinum Toxin Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

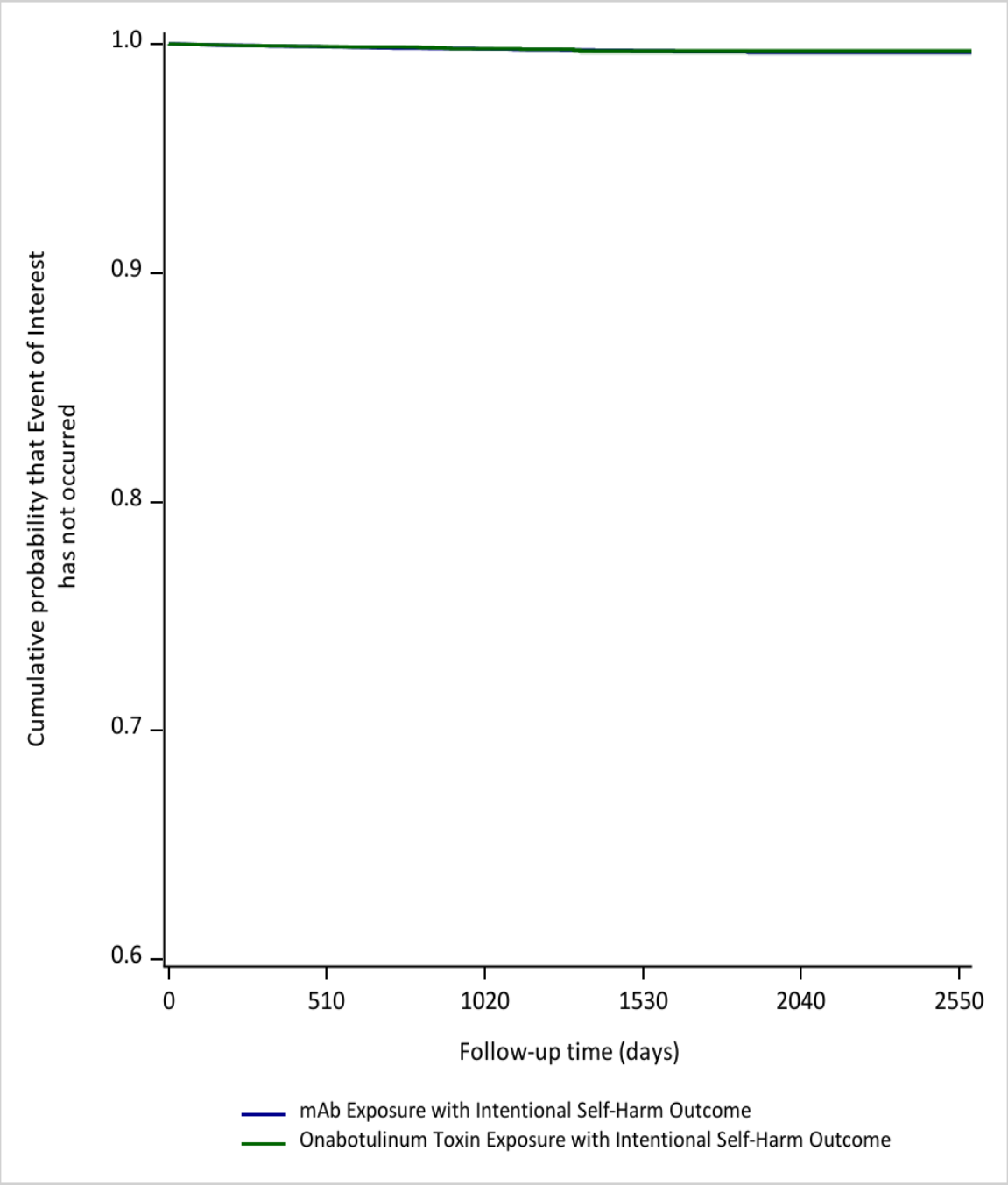


Figure 41a. Aggregated Unadjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Triptans Exposure with Intentional Self-Harm Outcome from the Whole Population in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

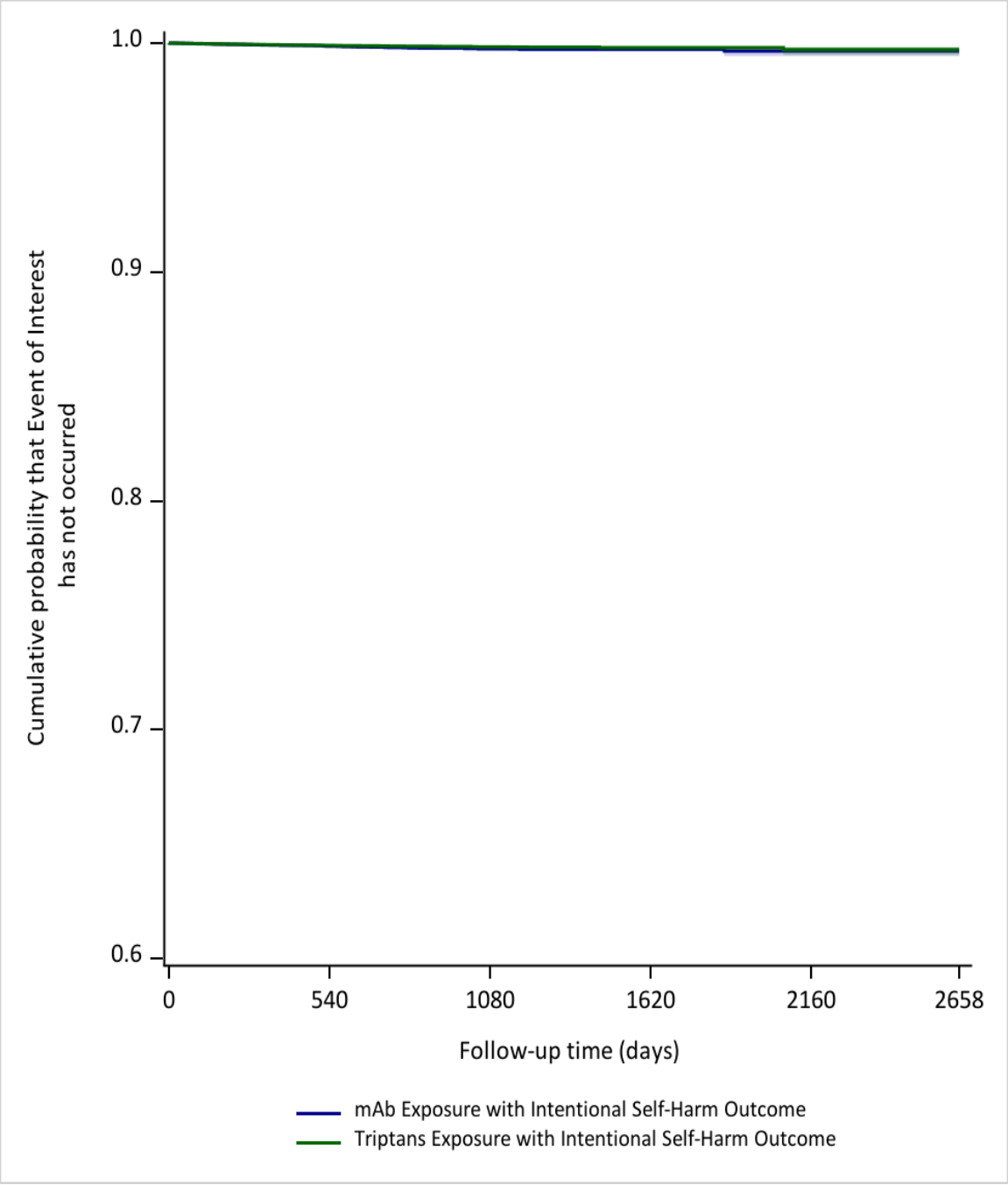


Figure 41b. Aggregated Adjusted Kaplan-Meier Estimate of Event of Interest Not Occurring Among mAb-Triptans Exposure with Intentional Self-Harm Outcome from the Conditional Matched Population after mAb-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025

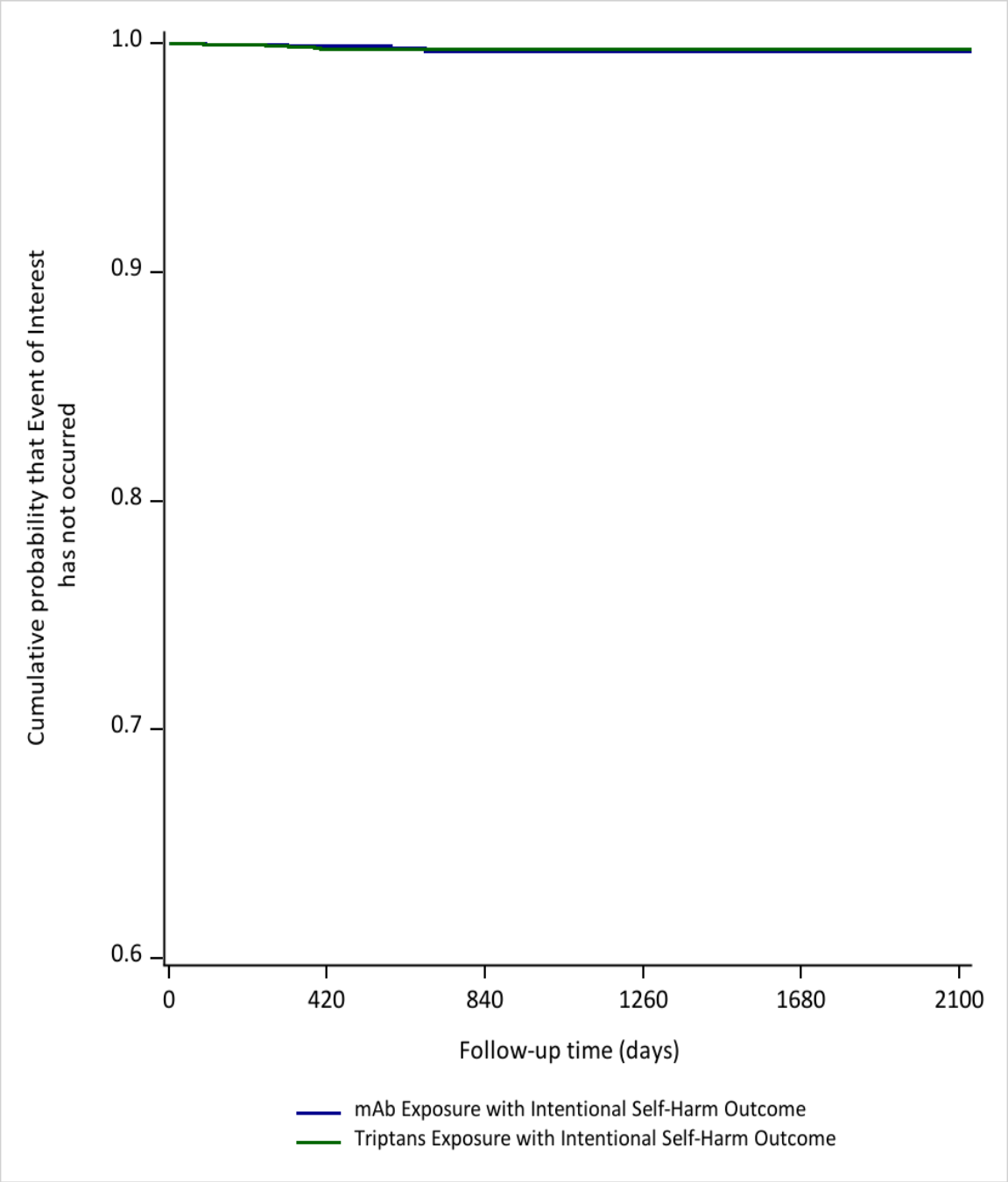
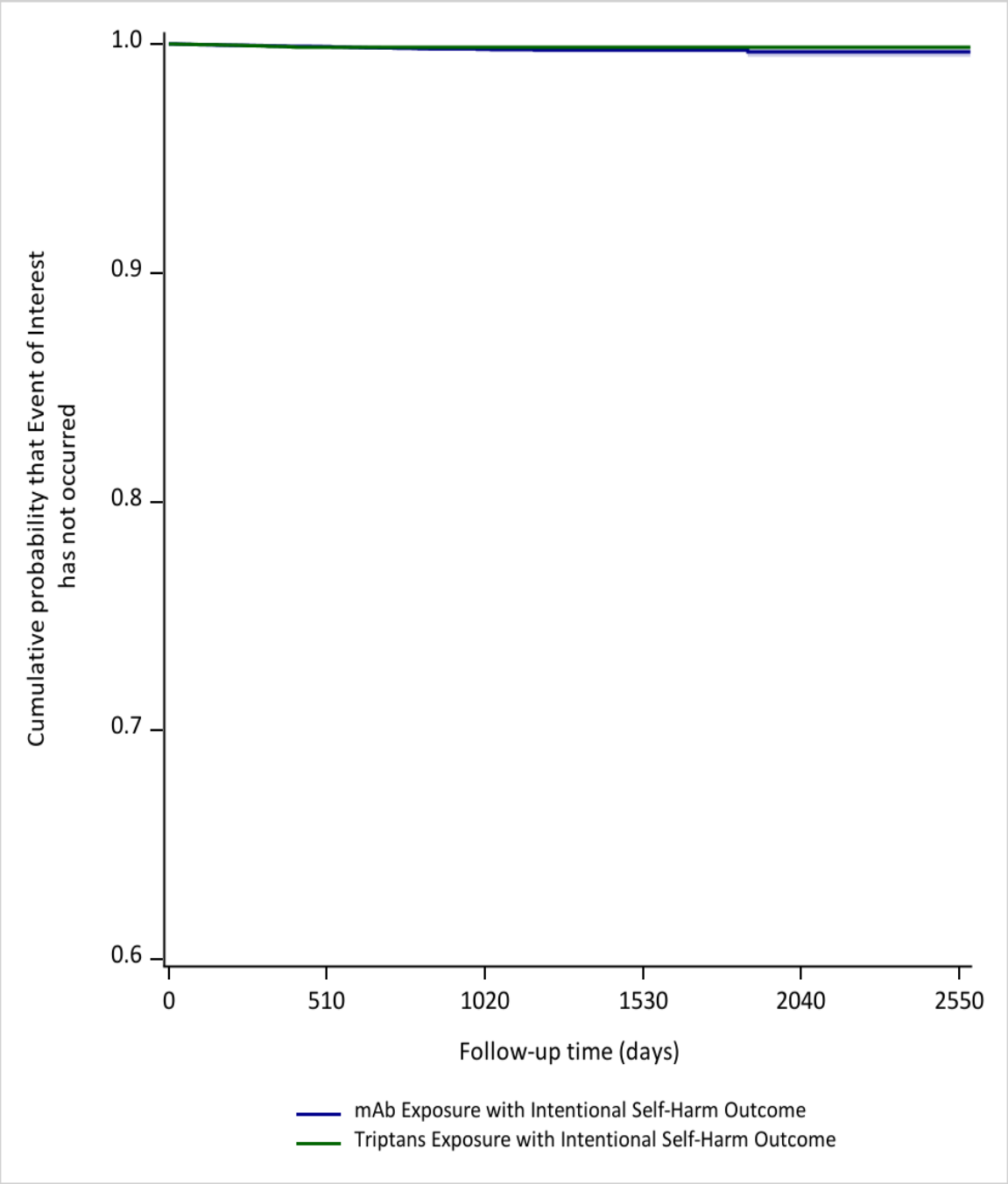


Figure 41c. Aggregated Adjusted Kaplan-Meier Estimate and 95% Confidence Interval of Event of Interest Not Occurring Among mAb-Triptans Exposure with Intentional Self-Harm Outcome from the Unconditional Matched Population after mAb-Triptans Exposure with Intentional Self-Harm Outcome in the Sentinel Distributed Database (SDD) from May 1, 2018 to June 30, 2025



Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date

DP ID	Start Date	End Date[1]
DP01	01/01/2006	05/31/2025
DP02	01/01/2007	05/31/2025
DP03	01/01/2008	04/30/2025
DP04	01/01/2010	03/31/2025
DP05	01/01/2008	06/30/2025
DP06	01/01/1999	12/31/2022

[1]End Date represents the earliest of: (1) query end date, or (2) last day of the most recent month for which all of a Data Partner's data tables (enrollment, dispensing, etc.) have at least 80% of the record count relative to the prior month.

Appendix B. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Exposures in this Request

Non-Proprietary Name	Proprietary Name
Small Molecule CGRP Antagonists	
atogepant	Qulipta
rimegepant sulfate	Nurtec ODT
ubrogepant	Ubrelvy
zavegepant HCl	Zavzpret
mAb CGRPs	
eptinezumab-jjmr	Vyepti
erenumab-aooe	Aimovig Autoinjector
erenumab-aooe	Aimovig Autoinjector (2 Pack)
fremanezumab-vfrm	Ajovy Autoinjector
fremanezumab-vfrm	Ajovy Syringe
galcanezumab-gnlm	Emgality Pen
galcanezumab-gnlm	Emgality Syringe
Onabotulinum Toxin	
onabotulinumtoxinA	Botox
onabotulinumtoxinA	Botox Cosmetic
Triptans	
almotriptan malate	Axert
almotriptan malate	almotriptan malate
eletriptan hydrobromide	Relpax
eletriptan hydrobromide	eletriptan
frovatriptan succinate	Frova
frovatriptan succinate	frovatriptan
naratriptan HCl	Amerge
naratriptan HCl	naratriptan
rizatriptan benzoate	Maxalt
rizatriptan benzoate	Maxalt-MLT
rizatriptan benzoate	rizatriptan
rizatriptan benzoate/meloxicam	Symbravo
sumatriptan	Imitrex
sumatriptan	Tosymra
sumatriptan	sumatriptan
sumatriptan succinate	Imitrex
sumatriptan succinate	Imitrex STATdose Pen
sumatriptan succinate	Imitrex STATdose Refill
sumatriptan succinate	Onzetra Xsail
sumatriptan succinate	Sumavel DosePro
sumatriptan succinate	Zembrace Symtouch

Appendix B. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Exposures in this Request

Non-Proprietary Name	Proprietary Name
sumatriptan succinate	sumatriptan succinate
sumatriptan succinate/menthol/camphor	Migranow
sumatriptan succinate/naproxen sodium	Treximet
sumatriptan succinate/naproxen sodium	sumatriptan-naproxen
zolmitriptan	Zomig
zolmitriptan	Zomig ZMT
zolmitriptan	zolmitriptan
Dihydroergotamine (DHE)	
dihydroergotamine mesylate	D.H.E.45
dihydroergotamine mesylate	Migranal
dihydroergotamine mesylate	Trudhesa
dihydroergotamine mesylate	dihydroergotamine

Appendix C. List of Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Exposures in this Request

Code	Description	Code Category	Code Type
	mAb CGRPs		
C9040	Injection, fremanezumab-vfrm, 1 mg	Procedure	HC
C9063	Injection, eptinezumab-jjmr, 1 mg	Procedure	HC
J3031	Injection, fremanezumab-vfrm, 1 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HC
J3032	Injection, eptinezumab-jjmr, 1 mg	Procedure	HC
	Onabotulinum Toxin		
J0585	Injection, onabotulinumtoxinA, 1 unit	Procedure	HC
	Triptans		
J3030	Injection, sumatriptan succinate, 6 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HC
	Dihydroergotamine (DHE)		
J1110	Injection, dihydroergotamine mesylate, per 1 mg	Procedure	HC

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
	Constipation		
K59.0	Constipation	Diagnosis	ICD-10-CM
K59.00	Constipation, unspecified	Diagnosis	ICD-10-CM
K59.01	Slow transit constipation	Diagnosis	ICD-10-CM
K59.02	Outlet dysfunction constipation	Diagnosis	ICD-10-CM
K59.03	Drug induced constipation	Diagnosis	ICD-10-CM
K59.04	Chronic idiopathic constipation	Diagnosis	ICD-10-CM
K59.09	Other constipation	Diagnosis	ICD-10-CM
	Gastrointestinal Hypomotility		
K31.89	Other diseases of stomach and duodenum	Diagnosis	ICD-10-CM
	Paralytic Ileus		
K56	Paralytic ileus and intestinal obstruction without hernia	Diagnosis	ICD-10-CM
K56.0	Paralytic ileus	Diagnosis	ICD-10-CM
K56.1	Intussusception	Diagnosis	ICD-10-CM
K56.2	Volvulus	Diagnosis	ICD-10-CM
K56.3	Gallstone ileus	Diagnosis	ICD-10-CM
K56.4	Other impaction of intestine	Diagnosis	ICD-10-CM
K56.41	Fecal impaction	Diagnosis	ICD-10-CM
K56.49	Other impaction of intestine	Diagnosis	ICD-10-CM
K56.5	Intestinal adhesions [bands] with obstruction (postinfection)	Diagnosis	ICD-10-CM
K56.50	Intestinal adhesions [bands], unspecified as to partial versus complete obstruction	Diagnosis	ICD-10-CM
K56.51	Intestinal adhesions [bands], with partial obstruction	Diagnosis	ICD-10-CM
K56.52	Intestinal adhesions [bands] with complete obstruction	Diagnosis	ICD-10-CM
K56.6	Other and unspecified intestinal obstruction	Diagnosis	ICD-10-CM
K56.60	Unspecified intestinal obstruction	Diagnosis	ICD-10-CM
K56.600	Partial intestinal obstruction, unspecified as to cause	Diagnosis	ICD-10-CM
K56.601	Complete intestinal obstruction, unspecified as to cause	Diagnosis	ICD-10-CM
K56.609	Unspecified intestinal obstruction, unspecified as to partial versus complete obstruction	Diagnosis	ICD-10-CM
K56.69	Other intestinal obstruction	Diagnosis	ICD-10-CM
K56.690	Other partial intestinal obstruction	Diagnosis	ICD-10-CM
K56.691	Other complete intestinal obstruction	Diagnosis	ICD-10-CM
K56.699	Other intestinal obstruction unspecified as to partial versus complete obstruction	Diagnosis	ICD-10-CM
K56.7	Ileus, unspecified	Diagnosis	ICD-10-CM
	Suicidal Ideation		
F06.30	Mood disorder due to known physiological condition, unspecified	Diagnosis	ICD-10-CM
F06.31	Mood disorder due to known physiological condition with depressive features	Diagnosis	ICD-10-CM
F06.32	Mood disorder due to known physiological condition with major depressive-like episode	Diagnosis	ICD-10-CM
F06.33	Mood disorder due to known physiological condition with manic features	Diagnosis	ICD-10-CM
F06.34	Mood disorder due to known physiological condition with mixed features	Diagnosis	ICD-10-CM
F21	Schizotypal disorder	Diagnosis	ICD-10-CM
F30.10	Manic episode without psychotic symptoms, unspecified	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
F30.11	Manic episode without psychotic symptoms, mild	Diagnosis	ICD-10-CM
F30.12	Manic episode without psychotic symptoms, moderate	Diagnosis	ICD-10-CM
F30.13	Manic episode, severe, without psychotic symptoms	Diagnosis	ICD-10-CM
F30.2	Manic episode, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F30.3	Manic episode in partial remission	Diagnosis	ICD-10-CM
F30.4	Manic episode in full remission	Diagnosis	ICD-10-CM
F30.8	Other manic episodes	Diagnosis	ICD-10-CM
F30.9	Manic episode, unspecified	Diagnosis	ICD-10-CM
F31.0	Bipolar disorder, current episode hypomanic	Diagnosis	ICD-10-CM
F31.10	Bipolar disorder, current episode manic without psychotic features, unspecified	Diagnosis	ICD-10-CM
F31.11	Bipolar disorder, current episode manic without psychotic features, mild	Diagnosis	ICD-10-CM
F31.12	Bipolar disorder, current episode manic without psychotic features, moderate	Diagnosis	ICD-10-CM
F31.13	Bipolar disorder, current episode manic without psychotic features, severe	Diagnosis	ICD-10-CM
F31.2	Bipolar disorder, current episode manic severe with psychotic features	Diagnosis	ICD-10-CM
F31.30	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified	Diagnosis	ICD-10-CM
F31.31	Bipolar disorder, current episode depressed, mild	Diagnosis	ICD-10-CM
F31.32	Bipolar disorder, current episode depressed, moderate	Diagnosis	ICD-10-CM
F31.4	Bipolar disorder, current episode depressed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.5	Bipolar disorder, current episode depressed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.60	Bipolar disorder, current episode mixed, unspecified	Diagnosis	ICD-10-CM
F31.61	Bipolar disorder, current episode mixed, mild	Diagnosis	ICD-10-CM
F31.62	Bipolar disorder, current episode mixed, moderate	Diagnosis	ICD-10-CM
F31.63	Bipolar disorder, current episode mixed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.64	Bipolar disorder, current episode mixed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.70	Bipolar disorder, currently in remission, most recent episode unspecified	Diagnosis	ICD-10-CM
F31.71	Bipolar disorder, in partial remission, most recent episode hypomanic	Diagnosis	ICD-10-CM
F31.72	Bipolar disorder, in full remission, most recent episode hypomanic	Diagnosis	ICD-10-CM
F31.73	Bipolar disorder, in partial remission, most recent episode manic	Diagnosis	ICD-10-CM
F31.74	Bipolar disorder, in full remission, most recent episode manic	Diagnosis	ICD-10-CM
F31.75	Bipolar disorder, in partial remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.76	Bipolar disorder, in full remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.77	Bipolar disorder, in partial remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.78	Bipolar disorder, in full remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.81	Bipolar II disorder	Diagnosis	ICD-10-CM
F31.89	Other bipolar disorder	Diagnosis	ICD-10-CM
F31.9	Bipolar disorder, unspecified	Diagnosis	ICD-10-CM
F32.0	Major depressive disorder, single episode, mild	Diagnosis	ICD-10-CM
F32.1	Major depressive disorder, single episode, moderate	Diagnosis	ICD-10-CM
F32.2	Major depressive disorder, single episode, severe without psychotic features	Diagnosis	ICD-10-CM
F32.3	Major depressive disorder, single episode, severe with psychotic features	Diagnosis	ICD-10-CM
F32.4	Major depressive disorder, single episode, in partial remission	Diagnosis	ICD-10-CM
F32.5	Major depressive disorder, single episode, in full remission	Diagnosis	ICD-10-CM
F32.89	Other specified depressive episodes	Diagnosis	ICD-10-CM
F32.9	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
F33.0	Major depressive disorder, recurrent, mild	Diagnosis	ICD-10-CM
F33.1	Major depressive disorder, recurrent, moderate	Diagnosis	ICD-10-CM
F33.2	Major depressive disorder, recurrent severe without psychotic features	Diagnosis	ICD-10-CM
F33.3	Major depressive disorder, recurrent, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F33.40	Major depressive disorder, recurrent, in remission, unspecified	Diagnosis	ICD-10-CM
F33.41	Major depressive disorder, recurrent, in partial remission	Diagnosis	ICD-10-CM
F33.42	Major depressive disorder, recurrent, in full remission	Diagnosis	ICD-10-CM
F33.8	Other recurrent depressive disorders	Diagnosis	ICD-10-CM
F33.9	Major depressive disorder, recurrent, unspecified	Diagnosis	ICD-10-CM
F34.0	Cyclothymic disorder	Diagnosis	ICD-10-CM
F34.1	Dysthymic disorder	Diagnosis	ICD-10-CM
F34.81	Disruptive mood dysregulation disorder	Diagnosis	ICD-10-CM
F34.89	Other specified persistent mood disorders	Diagnosis	ICD-10-CM
F34.9	Persistent mood [affective] disorder, unspecified	Diagnosis	ICD-10-CM
F39	Unspecified mood [affective] disorder	Diagnosis	ICD-10-CM
F43.10	Post-traumatic stress disorder, unspecified	Diagnosis	ICD-10-CM
F43.11	Post-traumatic stress disorder, acute	Diagnosis	ICD-10-CM
F43.12	Post-traumatic stress disorder, chronic	Diagnosis	ICD-10-CM
F43.20	Adjustment disorder, unspecified	Diagnosis	ICD-10-CM
F43.21	Adjustment disorder with depressed mood	Diagnosis	ICD-10-CM
F43.22	Adjustment disorder with anxiety	Diagnosis	ICD-10-CM
F43.23	Adjustment disorder with mixed anxiety and depressed mood	Diagnosis	ICD-10-CM
F43.24	Adjustment disorder with disturbance of conduct	Diagnosis	ICD-10-CM
F43.25	Adjustment disorder with mixed disturbance of emotions and conduct	Diagnosis	ICD-10-CM
F43.29	Adjustment disorder with other symptoms	Diagnosis	ICD-10-CM
F43.8	Other reactions to severe stress	Diagnosis	ICD-10-CM
F43.9	Reaction to severe stress, unspecified	Diagnosis	ICD-10-CM
F48.9	Nonpsychotic mental disorder, unspecified	Diagnosis	ICD-10-CM
F60.0	Paranoid personality disorder	Diagnosis	ICD-10-CM
F60.1	Schizoid personality disorder	Diagnosis	ICD-10-CM
F60.2	Antisocial personality disorder	Diagnosis	ICD-10-CM
F60.3	Borderline personality disorder	Diagnosis	ICD-10-CM
F60.4	Histrionic personality disorder	Diagnosis	ICD-10-CM
F60.5	Obsessive-compulsive personality disorder	Diagnosis	ICD-10-CM
F60.6	Avoidant personality disorder	Diagnosis	ICD-10-CM
F60.7	Dependent personality disorder	Diagnosis	ICD-10-CM
F60.81	Narcissistic personality disorder	Diagnosis	ICD-10-CM
F60.89	Other specific personality disorders	Diagnosis	ICD-10-CM
F60.9	Personality disorder, unspecified	Diagnosis	ICD-10-CM
F68.10	Factitious disorder imposed on self, unspecified	Diagnosis	ICD-10-CM
F68.12	Factitious disorder imposed on self, with predominantly physical signs and symptoms	Diagnosis	ICD-10-CM
F68.13	Factitious disorder imposed on self, with combined psychological and physical signs and symptoms	Diagnosis	ICD-10-CM
F69	Unspecified disorder of adult personality and behavior	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
F93.0	Separation anxiety disorder of childhood	Diagnosis	ICD-10-CM
F94.8	Other childhood disorders of social functioning	Diagnosis	ICD-10-CM
F99	Mental disorder, not otherwise specified	Diagnosis	ICD-10-CM
R45.2	Unhappiness	Diagnosis	ICD-10-CM
R45.5	Hostility	Diagnosis	ICD-10-CM
R45.6	Violent behavior	Diagnosis	ICD-10-CM
	Suicidal Ideation Self Harm		
S51.001A	Unspecified open wound of right elbow, initial encounter	Diagnosis	ICD-10-CM
S51.002A	Unspecified open wound of left elbow, initial encounter	Diagnosis	ICD-10-CM
S51.009A	Unspecified open wound of unspecified elbow, initial encounter	Diagnosis	ICD-10-CM
S51.011A	Laceration without foreign body of right elbow, initial encounter	Diagnosis	ICD-10-CM
S51.012A	Laceration without foreign body of left elbow, initial encounter	Diagnosis	ICD-10-CM
S51.019A	Laceration without foreign body of unspecified elbow, initial encounter	Diagnosis	ICD-10-CM
S51.021A	Laceration with foreign body of right elbow, initial encounter	Diagnosis	ICD-10-CM
S51.022A	Laceration with foreign body of left elbow, initial encounter	Diagnosis	ICD-10-CM
S51.029A	Laceration with foreign body of unspecified elbow, initial encounter	Diagnosis	ICD-10-CM
S51.031A	Puncture wound without foreign body of right elbow, initial encounter	Diagnosis	ICD-10-CM
S51.032A	Puncture wound without foreign body of left elbow, initial encounter	Diagnosis	ICD-10-CM
S51.039A	Puncture wound without foreign body of unspecified elbow, initial encounter	Diagnosis	ICD-10-CM
S51.041A	Puncture wound with foreign body of right elbow, initial encounter	Diagnosis	ICD-10-CM
S51.042A	Puncture wound with foreign body of left elbow, initial encounter	Diagnosis	ICD-10-CM
S51.049A	Puncture wound with foreign body of unspecified elbow, initial encounter	Diagnosis	ICD-10-CM
S51.051A	Open bite, right elbow, initial encounter	Diagnosis	ICD-10-CM
S51.052A	Open bite, left elbow, initial encounter	Diagnosis	ICD-10-CM
S51.059A	Open bite, unspecified elbow, initial encounter	Diagnosis	ICD-10-CM
S51.801A	Unspecified open wound of right forearm, initial encounter	Diagnosis	ICD-10-CM
S51.802A	Unspecified open wound of left forearm, initial encounter	Diagnosis	ICD-10-CM
S51.809A	Unspecified open wound of unspecified forearm, initial encounter	Diagnosis	ICD-10-CM
S51.811A	Laceration without foreign body of right forearm, initial encounter	Diagnosis	ICD-10-CM
S51.812A	Laceration without foreign body of left forearm, initial encounter	Diagnosis	ICD-10-CM
S51.819A	Laceration without foreign body of unspecified forearm, initial encounter	Diagnosis	ICD-10-CM
S51.821A	Laceration with foreign body of right forearm, initial encounter	Diagnosis	ICD-10-CM
S51.822A	Laceration with foreign body of left forearm, initial encounter	Diagnosis	ICD-10-CM
S51.829A	Laceration with foreign body of unspecified forearm, initial encounter	Diagnosis	ICD-10-CM
S51.831A	Puncture wound without foreign body of right forearm, initial encounter	Diagnosis	ICD-10-CM
S51.832A	Puncture wound without foreign body of left forearm, initial encounter	Diagnosis	ICD-10-CM
S51.839A	Puncture wound without foreign body of unspecified forearm, initial encounter	Diagnosis	ICD-10-CM
S51.841A	Puncture wound with foreign body of right forearm, initial encounter	Diagnosis	ICD-10-CM
S51.842A	Puncture wound with foreign body of left forearm, initial encounter	Diagnosis	ICD-10-CM
S51.849A	Puncture wound with foreign body of unspecified forearm, initial encounter	Diagnosis	ICD-10-CM
S51.851A	Open bite of right forearm, initial encounter	Diagnosis	ICD-10-CM
S51.852A	Open bite of left forearm, initial encounter	Diagnosis	ICD-10-CM
S51.859A	Open bite of unspecified forearm, initial encounter	Diagnosis	ICD-10-CM
S56.021A	Laceration of flexor muscle, fascia and tendon of right thumb at forearm level, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
S56.022A	Laceration of flexor muscle, fascia and tendon of left thumb at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.029A	Laceration of flexor muscle, fascia and tendon of unspecified thumb at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.121A	Laceration of flexor muscle, fascia and tendon of right index finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.122A	Laceration of flexor muscle, fascia and tendon of left index finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.123A	Laceration of flexor muscle, fascia and tendon of right middle finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.124A	Laceration of flexor muscle, fascia and tendon of left middle finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.125A	Laceration of flexor muscle, fascia and tendon of right ring finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.126A	Laceration of flexor muscle, fascia and tendon of left ring finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.127A	Laceration of flexor muscle, fascia and tendon of right little finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.128A	Laceration of flexor muscle, fascia and tendon of left little finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.129A	Laceration of flexor muscle, fascia and tendon of unspecified finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.221A	Laceration of other flexor muscle, fascia and tendon at forearm level, right arm, initial encounter	Diagnosis	ICD-10-CM
S56.222A	Laceration of other flexor muscle, fascia and tendon at forearm level, left arm, initial encounter	Diagnosis	ICD-10-CM
S56.229A	Laceration of other flexor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter	Diagnosis	ICD-10-CM
S56.321A	Laceration of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.322A	Laceration of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.329A	Laceration of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.421A	Laceration of extensor muscle, fascia and tendon of right index finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.422A	Laceration of extensor muscle, fascia and tendon of left index finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.423A	Laceration of extensor muscle, fascia and tendon of right middle finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.424A	Laceration of extensor muscle, fascia and tendon of left middle finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.425A	Laceration of extensor muscle, fascia and tendon of right ring finger at forearm level, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
S56.426A	Laceration of extensor muscle, fascia and tendon of left ring finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.427A	Laceration of extensor muscle, fascia and tendon of right little finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.428A	Laceration of extensor muscle, fascia and tendon of left little finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.429A	Laceration of extensor muscle, fascia and tendon of unspecified finger at forearm level, initial encounter	Diagnosis	ICD-10-CM
S56.521A	Laceration of other extensor muscle, fascia and tendon at forearm level, right arm, initial encounter	Diagnosis	ICD-10-CM
S56.522A	Laceration of other extensor muscle, fascia and tendon at forearm level, left arm, initial encounter	Diagnosis	ICD-10-CM
S56.529A	Laceration of other extensor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter	Diagnosis	ICD-10-CM
S56.821A	Laceration of other muscles, fascia and tendons at forearm level, right arm, initial encounter	Diagnosis	ICD-10-CM
S56.822A	Laceration of other muscles, fascia and tendons at forearm level, left arm, initial encounter	Diagnosis	ICD-10-CM
S56.829A	Laceration of other muscles, fascia and tendons at forearm level, unspecified arm, initial encounter	Diagnosis	ICD-10-CM
S56.921A	Laceration of unspecified muscles, fascia and tendons at forearm level, right arm, initial encounter	Diagnosis	ICD-10-CM
S56.922A	Laceration of unspecified muscles, fascia and tendons at forearm level, left arm, initial encounter	Diagnosis	ICD-10-CM
S56.929A	Laceration of unspecified muscles, fascia and tendons at forearm level, unspecified arm, initial encounter	Diagnosis	ICD-10-CM
S61.501A	Unspecified open wound of right wrist, initial encounter	Diagnosis	ICD-10-CM
S61.502A	Unspecified open wound of left wrist, initial encounter	Diagnosis	ICD-10-CM
S61.509A	Unspecified open wound of unspecified wrist, initial encounter	Diagnosis	ICD-10-CM
S61.511A	Laceration without foreign body of right wrist, initial encounter	Diagnosis	ICD-10-CM
S61.512A	Laceration without foreign body of left wrist, initial encounter	Diagnosis	ICD-10-CM
S61.519A	Laceration without foreign body of unspecified wrist, initial encounter	Diagnosis	ICD-10-CM
S61.521A	Laceration with foreign body of right wrist, initial encounter	Diagnosis	ICD-10-CM
S61.522A	Laceration with foreign body of left wrist, initial encounter	Diagnosis	ICD-10-CM
S61.529A	Laceration with foreign body of unspecified wrist, initial encounter	Diagnosis	ICD-10-CM
S61.531A	Puncture wound without foreign body of right wrist, initial encounter	Diagnosis	ICD-10-CM
S61.532A	Puncture wound without foreign body of left wrist, initial encounter	Diagnosis	ICD-10-CM
S61.539A	Puncture wound without foreign body of unspecified wrist, initial encounter	Diagnosis	ICD-10-CM
S61.541A	Puncture wound with foreign body of right wrist, initial encounter	Diagnosis	ICD-10-CM
S61.542A	Puncture wound with foreign body of left wrist, initial encounter	Diagnosis	ICD-10-CM
S61.549A	Puncture wound with foreign body of unspecified wrist, initial encounter	Diagnosis	ICD-10-CM
S61.551A	Open bite of right wrist, initial encounter	Diagnosis	ICD-10-CM
S61.552A	Open bite of left wrist, initial encounter	Diagnosis	ICD-10-CM
S61.559A	Open bite of unspecified wrist, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
S66.021A	Laceration of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.022A	Laceration of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.029A	Laceration of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.120A	Laceration of flexor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.121A	Laceration of flexor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.122A	Laceration of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.123A	Laceration of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.124A	Laceration of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.125A	Laceration of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.126A	Laceration of flexor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.127A	Laceration of flexor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.128A	Laceration of flexor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.129A	Laceration of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.221A	Laceration of extensor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.222A	Laceration of extensor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.229A	Laceration of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.320A	Laceration of extensor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.321A	Laceration of extensor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.322A	Laceration of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.323A	Laceration of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.324A	Laceration of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.325A	Laceration of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
S66.326A	Laceration of extensor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.327A	Laceration of extensor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.328A	Laceration of extensor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.329A	Laceration of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.421A	Laceration of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.422A	Laceration of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.429A	Laceration of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.520A	Laceration of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.521A	Laceration of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.522A	Laceration of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.523A	Laceration of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.524A	Laceration of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.525A	Laceration of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.526A	Laceration of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.527A	Laceration of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.528A	Laceration of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.529A	Laceration of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter	Diagnosis	ICD-10-CM
S66.821A	Laceration of other specified muscles, fascia and tendons at wrist and hand level, right hand, initial encounter	Diagnosis	ICD-10-CM
S66.822A	Laceration of other specified muscles, fascia and tendons at wrist and hand level, left hand, initial encounter	Diagnosis	ICD-10-CM
S66.829A	Laceration of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, initial encounter	Diagnosis	ICD-10-CM
S66.921A	Laceration of unspecified muscle, fascia and tendon at wrist and hand level, right hand, initial encounter	Diagnosis	ICD-10-CM
S66.922A	Laceration of unspecified muscle, fascia and tendon at wrist and hand level, left hand, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
S66.929A	Laceration of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, initial encounter	Diagnosis	ICD-10-CM
T14.91	Suicide attempt	Diagnosis	ICD-10-CM
T14.91XA	Suicide attempt, initial encounter	Diagnosis	ICD-10-CM
T14.91XD	Suicide attempt, subsequent encounter	Diagnosis	ICD-10-CM
T14.91XS	Suicide attempt, sequela	Diagnosis	ICD-10-CM
T36.0X2	Poisoning by penicillins, intentional self-harm	Diagnosis	ICD-10-CM
T36.0X2A	Poisoning by penicillins, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T36.0X2D	Poisoning by penicillins, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T36.0X2S	Poisoning by penicillins, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T36.1X2	Poisoning by cephalosporins and other beta-lactam antibiotics, intentional self-harm	Diagnosis	ICD-10-CM
T36.1X2A	Poisoning by cephalosporins and other beta-lactam antibiotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T36.1X2D	Poisoning by cephalosporins and other beta-lactam antibiotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T36.1X2S	Poisoning by cephalosporins and other beta-lactam antibiotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T36.2X2	Poisoning by chloramphenicol group, intentional self-harm	Diagnosis	ICD-10-CM
T36.2X2A	Poisoning by chloramphenicol group, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T36.2X2D	Poisoning by chloramphenicol group, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T36.2X2S	Poisoning by chloramphenicol group, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T36.3X2	Poisoning by macrolides, intentional self-harm	Diagnosis	ICD-10-CM
T36.3X2A	Poisoning by macrolides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T36.3X2D	Poisoning by macrolides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T36.3X2S	Poisoning by macrolides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T36.4X2	Poisoning by tetracyclines, intentional self-harm	Diagnosis	ICD-10-CM
T36.4X2A	Poisoning by tetracyclines, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T36.4X2D	Poisoning by tetracyclines, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T36.4X2S	Poisoning by tetracyclines, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T36.5X2	Poisoning by aminoglycosides, intentional self-harm	Diagnosis	ICD-10-CM
T36.5X2A	Poisoning by aminoglycosides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T36.5X2D	Poisoning by aminoglycosides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T36.5X2S	Poisoning by aminoglycosides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T36.6X2	Poisoning by rifampicins, intentional self-harm	Diagnosis	ICD-10-CM
T36.6X2A	Poisoning by rifampicins, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T36.6X2D	Poisoning by rifampicins, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T36.6X2S	Poisoning by rifampicins, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T36.7X2	Poisoning by antifungal antibiotics, systemically used, intentional self-harm	Diagnosis	ICD-10-CM
T36.7X2A	Poisoning by antifungal antibiotics, systemically used, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T36.7X2D	Poisoning by antifungal antibiotics, systemically used, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T36.7X2S	Poisoning by antifungal antibiotics, systemically used, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T36.8X2	Poisoning by other systemic antibiotics, intentional self-harm	Diagnosis	ICD-10-CM
T36.8X2A	Poisoning by other systemic antibiotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T36.8X2D	Poisoning by other systemic antibiotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T36.8X2S	Poisoning by other systemic antibiotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T36.92	Poisoning by unspecified systemic antibiotic, intentional self-harm	Diagnosis	ICD-10-CM
T36.92XA	Poisoning by unspecified systemic antibiotic, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T36.92XD	Poisoning by unspecified systemic antibiotic, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T36.92XS	Poisoning by unspecified systemic antibiotic, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T37.0X2	Poisoning by sulfonamides, intentional self-harm	Diagnosis	ICD-10-CM
T37.0X2A	Poisoning by sulfonamides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T37.0X2D	Poisoning by sulfonamides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T37.0X2S	Poisoning by sulfonamides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T37.1X2	Poisoning by antimycobacterial drugs, intentional self-harm	Diagnosis	ICD-10-CM
T37.1X2A	Poisoning by antimycobacterial drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T37.1X2D	Poisoning by antimycobacterial drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T37.1X2S	Poisoning by antimycobacterial drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T37.2X2	Poisoning by antimalarials and drugs acting on other blood protozoa, intentional self-harm	Diagnosis	ICD-10-CM
T37.2X2A	Poisoning by antimalarials and drugs acting on other blood protozoa, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T37.2X2D	Poisoning by antimalarials and drugs acting on other blood protozoa, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T37.2X2S	Poisoning by antimalarials and drugs acting on other blood protozoa, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T37.3X2	Poisoning by other antiprotozoal drugs, intentional self-harm	Diagnosis	ICD-10-CM
T37.3X2A	Poisoning by other antiprotozoal drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T37.3X2D	Poisoning by other antiprotozoal drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T37.3X2S	Poisoning by other antiprotozoal drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T37.4X2	Poisoning by anthelminthics, intentional self-harm	Diagnosis	ICD-10-CM
T37.4X2A	Poisoning by anthelminthics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T37.4X2D	Poisoning by anthelminthics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T37.4X2S	Poisoning by anthelminthics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T37.5X2	Poisoning by antiviral drugs, intentional self-harm	Diagnosis	ICD-10-CM
T37.5X2A	Poisoning by antiviral drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T37.5X2D	Poisoning by antiviral drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T37.5X2S	Poisoning by antiviral drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T37.8X2	Poisoning by other specified systemic anti-infectives and antiparasitics, intentional self-harm	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T37.8X2A	Poisoning by other specified systemic anti-infectives and antiparasitics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T37.8X2D	Poisoning by other specified systemic anti-infectives and antiparasitics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T37.8X2S	Poisoning by other specified systemic anti-infectives and antiparasitics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T37.92	Poisoning by unspecified systemic anti-infective and antiparasitics, intentional self-harm	Diagnosis	ICD-10-CM
T37.92XA	Poisoning by unspecified systemic anti-infective and antiparasitics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T37.92XD	Poisoning by unspecified systemic anti-infective and antiparasitics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T37.92XS	Poisoning by unspecified systemic anti-infective and antiparasitics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.0X2	Poisoning by glucocorticoids and synthetic analogues, intentional self-harm	Diagnosis	ICD-10-CM
T38.0X2A	Poisoning by glucocorticoids and synthetic analogues, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.0X2D	Poisoning by glucocorticoids and synthetic analogues, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.0X2S	Poisoning by glucocorticoids and synthetic analogues, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.1X2	Poisoning by thyroid hormones and substitutes, intentional self-harm	Diagnosis	ICD-10-CM
T38.1X2A	Poisoning by thyroid hormones and substitutes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.1X2D	Poisoning by thyroid hormones and substitutes, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.1X2S	Poisoning by thyroid hormones and substitutes, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.2X2	Poisoning by antithyroid drugs, intentional self-harm	Diagnosis	ICD-10-CM
T38.2X2A	Poisoning by antithyroid drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.2X2D	Poisoning by antithyroid drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.2X2S	Poisoning by antithyroid drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.3X2	Poisoning by insulin and oral hypoglycemic [antidiabetic] drugs, intentional self-harm	Diagnosis	ICD-10-CM
T38.3X2A	Poisoning by insulin and oral hypoglycemic [antidiabetic] drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.3X2D	Poisoning by insulin and oral hypoglycemic [antidiabetic] drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.3X2S	Poisoning by insulin and oral hypoglycemic [antidiabetic] drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.4X2	Poisoning by oral contraceptives, intentional self-harm	Diagnosis	ICD-10-CM
T38.4X2A	Poisoning by oral contraceptives, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.4X2D	Poisoning by oral contraceptives, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.4X2S	Poisoning by oral contraceptives, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.5X2	Poisoning by other estrogens and progestogens, intentional self-harm	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T38.5X2A	Poisoning by other estrogens and progestogens, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.5X2D	Poisoning by other estrogens and progestogens, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.5X2S	Poisoning by other estrogens and progestogens, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.6X2	Poisoning by antigonadotrophins, antiestrogens, antiandrogens, not elsewhere classified, intentional self-harm	Diagnosis	ICD-10-CM
T38.6X2A	Poisoning by antigonadotrophins, antiestrogens, antiandrogens, not elsewhere classified, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.6X2D	Poisoning by antigonadotrophins, antiestrogens, antiandrogens, not elsewhere classified, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.6X2S	Poisoning by antigonadotrophins, antiestrogens, antiandrogens, not elsewhere classified, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.7X2	Poisoning by androgens and anabolic congeners, intentional self-harm	Diagnosis	ICD-10-CM
T38.7X2A	Poisoning by androgens and anabolic congeners, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.7X2D	Poisoning by androgens and anabolic congeners, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.7X2S	Poisoning by androgens and anabolic congeners, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.802	Poisoning by unspecified hormones and synthetic substitutes, intentional self-harm	Diagnosis	ICD-10-CM
T38.802A	Poisoning by unspecified hormones and synthetic substitutes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.802D	Poisoning by unspecified hormones and synthetic substitutes, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.802S	Poisoning by unspecified hormones and synthetic substitutes, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.812	Poisoning by anterior pituitary [adenohypophyseal] hormones, intentional self-harm	Diagnosis	ICD-10-CM
T38.812A	Poisoning by anterior pituitary [adenohypophyseal] hormones, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.812D	Poisoning by anterior pituitary [adenohypophyseal] hormones, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.812S	Poisoning by anterior pituitary [adenohypophyseal] hormones, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.892	Poisoning by other hormones and synthetic substitutes, intentional self-harm	Diagnosis	ICD-10-CM
T38.892A	Poisoning by other hormones and synthetic substitutes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.892D	Poisoning by other hormones and synthetic substitutes, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.892S	Poisoning by other hormones and synthetic substitutes, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.902	Poisoning by unspecified hormone antagonists, intentional self-harm	Diagnosis	ICD-10-CM
T38.902A	Poisoning by unspecified hormone antagonists, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T38.902D	Poisoning by unspecified hormone antagonists, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.902S	Poisoning by unspecified hormone antagonists, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T38.992	Poisoning by other hormone antagonists, intentional self-harm	Diagnosis	ICD-10-CM
T38.992A	Poisoning by other hormone antagonists, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T38.992D	Poisoning by other hormone antagonists, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T38.992S	Poisoning by other hormone antagonists, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T39.012	Poisoning by aspirin, intentional self-harm	Diagnosis	ICD-10-CM
T39.012A	Poisoning by aspirin, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T39.012D	Poisoning by aspirin, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T39.012S	Poisoning by aspirin, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T39.092	Poisoning by salicylates, intentional self-harm	Diagnosis	ICD-10-CM
T39.092A	Poisoning by salicylates, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T39.092D	Poisoning by salicylates, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T39.092S	Poisoning by salicylates, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T39.1X2	Poisoning by 4-Aminophenol derivatives, intentional self-harm	Diagnosis	ICD-10-CM
T39.1X2A	Poisoning by 4-Aminophenol derivatives, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T39.1X2D	Poisoning by 4-Aminophenol derivatives, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T39.1X2S	Poisoning by 4-Aminophenol derivatives, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T39.2X2	Poisoning by pyrazolone derivatives, intentional self-harm	Diagnosis	ICD-10-CM
T39.2X2A	Poisoning by pyrazolone derivatives, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T39.2X2D	Poisoning by pyrazolone derivatives, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T39.2X2S	Poisoning by pyrazolone derivatives, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T39.312	Poisoning by propionic acid derivatives, intentional self-harm	Diagnosis	ICD-10-CM
T39.312A	Poisoning by propionic acid derivatives, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T39.312D	Poisoning by propionic acid derivatives, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T39.312S	Poisoning by propionic acid derivatives, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T39.392	Poisoning by other nonsteroidal anti-inflammatory drugs [NSAID], intentional self-harm	Diagnosis	ICD-10-CM
T39.392A	Poisoning by other nonsteroidal anti-inflammatory drugs [NSAID], intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T39.392D	Poisoning by other nonsteroidal anti-inflammatory drugs [NSAID], intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T39.392S	Poisoning by other nonsteroidal anti-inflammatory drugs [NSAID], intentional self-harm, sequela	Diagnosis	ICD-10-CM
T39.4X2	Poisoning by antirheumatics, not elsewhere classified, intentional self-harm	Diagnosis	ICD-10-CM
T39.4X2A	Poisoning by antirheumatics, not elsewhere classified, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T39.4X2D	Poisoning by antirheumatics, not elsewhere classified, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T39.4X2S	Poisoning by antirheumatics, not elsewhere classified, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T39.8X2	Poisoning by other nonopioid analgesics and antipyretics, not elsewhere classified, intentional self-harm	Diagnosis	ICD-10-CM
T39.8X2A	Poisoning by other nonopioid analgesics and antipyretics, not elsewhere classified, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T39.8X2D	Poisoning by other nonopioid analgesics and antipyretics, not elsewhere classified, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T39.8X2S	Poisoning by other nonopioid analgesics and antipyretics, not elsewhere classified, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T39.92	Poisoning by unspecified nonopioid analgesic, antipyretic and antirheumatic, intentional self-harm	Diagnosis	ICD-10-CM
T39.92XA	Poisoning by unspecified nonopioid analgesic, antipyretic and antirheumatic, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T39.92XD	Poisoning by unspecified nonopioid analgesic, antipyretic and antirheumatic, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T39.92XS	Poisoning by unspecified nonopioid analgesic, antipyretic and antirheumatic, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.0X2	Poisoning by opium, intentional self-harm	Diagnosis	ICD-10-CM
T40.0X2A	Poisoning by opium, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.0X2D	Poisoning by opium, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X2S	Poisoning by opium, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.1X2	Poisoning by heroin, intentional self-harm	Diagnosis	ICD-10-CM
T40.1X2A	Poisoning by heroin, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.1X2D	Poisoning by heroin, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X2S	Poisoning by heroin, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.2X2	Poisoning by other opioids, intentional self-harm	Diagnosis	ICD-10-CM
T40.2X2A	Poisoning by other opioids, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.2X2D	Poisoning by other opioids, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X2S	Poisoning by other opioids, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.3X2	Poisoning by methadone, intentional self-harm	Diagnosis	ICD-10-CM
T40.3X2A	Poisoning by methadone, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.3X2D	Poisoning by methadone, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X2S	Poisoning by methadone, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.412	Poisoning by fentanyl or fentanyl analogs, intentional self-harm	Diagnosis	ICD-10-CM
T40.412A	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.412D	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.412S	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.422	Poisoning by tramadol, intentional self-harm	Diagnosis	ICD-10-CM
T40.422A	Poisoning by tramadol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.422D	Poisoning by tramadol, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T40.422S	Poisoning by tramadol, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.492	Poisoning by other synthetic narcotics, intentional self-harm	Diagnosis	ICD-10-CM
T40.492A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.492D	Poisoning by other synthetic narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.492S	Poisoning by other synthetic narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.4X2	Poisoning by other synthetic narcotics, intentional self-harm	Diagnosis	ICD-10-CM
T40.4X2A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.4X2D	Poisoning by other synthetic narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X2S	Poisoning by other synthetic narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.5X2	Poisoning by cocaine, intentional self-harm	Diagnosis	ICD-10-CM
T40.5X2A	Poisoning by cocaine, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.5X2D	Poisoning by cocaine, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.5X2S	Poisoning by cocaine, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.602	Poisoning by unspecified narcotics, intentional self-harm	Diagnosis	ICD-10-CM
T40.602A	Poisoning by unspecified narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.602D	Poisoning by unspecified narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.602S	Poisoning by unspecified narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.692	Poisoning by other narcotics, intentional self-harm	Diagnosis	ICD-10-CM
T40.692A	Poisoning by other narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.692D	Poisoning by other narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.692S	Poisoning by other narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.712	Poisoning by cannabis, intentional self-harm	Diagnosis	ICD-10-CM
T40.712A	Poisoning by cannabis, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.712D	Poisoning by cannabis, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.712S	Poisoning by cannabis, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.722	Poisoning by synthetic cannabinoids, intentional self-harm	Diagnosis	ICD-10-CM
T40.722A	Poisoning by synthetic cannabinoids, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.722D	Poisoning by synthetic cannabinoids, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.722S	Poisoning by synthetic cannabinoids, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.7X2	Poisoning by cannabis (derivatives), intentional self-harm	Diagnosis	ICD-10-CM
T40.7X2A	Poisoning by cannabis (derivatives), intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.7X2D	Poisoning by cannabis (derivatives), intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.7X2S	Poisoning by cannabis (derivatives), intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.8X2	Poisoning by lysergide [LSD], intentional self-harm	Diagnosis	ICD-10-CM
T40.8X2A	Poisoning by lysergide [LSD], intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.8X2D	Poisoning by lysergide [LSD], intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.8X2S	Poisoning by lysergide [LSD], intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.902	Poisoning by unspecified psychodysleptics [hallucinogens], intentional self-harm	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T40.902A	Poisoning by unspecified psychodysleptics [hallucinogens], intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.902D	Poisoning by unspecified psychodysleptics [hallucinogens], intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.902S	Poisoning by unspecified psychodysleptics [hallucinogens], intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.992	Poisoning by other psychodysleptics [hallucinogens], intentional self-harm	Diagnosis	ICD-10-CM
T40.992A	Poisoning by other psychodysleptics [hallucinogens], intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.992D	Poisoning by other psychodysleptics [hallucinogens], intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.992S	Poisoning by other psychodysleptics [hallucinogens], intentional self-harm, sequela	Diagnosis	ICD-10-CM
T41.0X2	Poisoning by inhaled anesthetics, intentional self-harm	Diagnosis	ICD-10-CM
T41.0X2A	Poisoning by inhaled anesthetics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T41.0X2D	Poisoning by inhaled anesthetics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T41.0X2S	Poisoning by inhaled anesthetics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T41.1X2	Poisoning by intravenous anesthetics, intentional self-harm	Diagnosis	ICD-10-CM
T41.1X2A	Poisoning by intravenous anesthetics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T41.1X2D	Poisoning by intravenous anesthetics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T41.1X2S	Poisoning by intravenous anesthetics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T41.202	Poisoning by unspecified general anesthetics, intentional self-harm	Diagnosis	ICD-10-CM
T41.202A	Poisoning by unspecified general anesthetics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T41.202D	Poisoning by unspecified general anesthetics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T41.202S	Poisoning by unspecified general anesthetics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T41.292	Poisoning by other general anesthetics, intentional self-harm	Diagnosis	ICD-10-CM
T41.292A	Poisoning by other general anesthetics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T41.292D	Poisoning by other general anesthetics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T41.292S	Poisoning by other general anesthetics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T41.3X2	Poisoning by local anesthetics, intentional self-harm	Diagnosis	ICD-10-CM
T41.3X2A	Poisoning by local anesthetics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T41.3X2D	Poisoning by local anesthetics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T41.3X2S	Poisoning by local anesthetics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T41.42	Poisoning by unspecified anesthetic, intentional self-harm	Diagnosis	ICD-10-CM
T41.42XA	Poisoning by unspecified anesthetic, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T41.42XD	Poisoning by unspecified anesthetic, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T41.42XS	Poisoning by unspecified anesthetic, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T41.5X2	Poisoning by therapeutic gases, intentional self-harm	Diagnosis	ICD-10-CM
T41.5X2A	Poisoning by therapeutic gases, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T41.5X2D	Poisoning by therapeutic gases, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T41.5X2S	Poisoning by therapeutic gases, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T42.0X2	Poisoning by hydantoin derivatives, intentional self-harm	Diagnosis	ICD-10-CM
T42.0X2A	Poisoning by hydantoin derivatives, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T42.0X2D	Poisoning by hydantoin derivatives, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T42.0X2S	Poisoning by hydantoin derivatives, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T42.1X2	Poisoning by iminostilbenes, intentional self-harm	Diagnosis	ICD-10-CM
T42.1X2A	Poisoning by iminostilbenes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T42.1X2D	Poisoning by iminostilbenes, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T42.1X2S	Poisoning by iminostilbenes, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T42.2X2	Poisoning by succinimides and oxazolidinediones, intentional self-harm	Diagnosis	ICD-10-CM
T42.2X2A	Poisoning by succinimides and oxazolidinediones, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T42.2X2D	Poisoning by succinimides and oxazolidinediones, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T42.2X2S	Poisoning by succinimides and oxazolidinediones, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T42.3X2	Poisoning by barbiturates, intentional self-harm	Diagnosis	ICD-10-CM
T42.3X2A	Poisoning by barbiturates, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T42.3X2D	Poisoning by barbiturates, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T42.3X2S	Poisoning by barbiturates, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T42.4X2	Poisoning by benzodiazepines, intentional self-harm	Diagnosis	ICD-10-CM
T42.4X2A	Poisoning by benzodiazepines, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T42.4X2D	Poisoning by benzodiazepines, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T42.4X2S	Poisoning by benzodiazepines, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T42.5X2	Poisoning by mixed antiepileptics, intentional self-harm	Diagnosis	ICD-10-CM
T42.5X2A	Poisoning by mixed antiepileptics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T42.5X2D	Poisoning by mixed antiepileptics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T42.5X2S	Poisoning by mixed antiepileptics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T42.6X2	Poisoning by other antiepileptic and sedative-hypnotic drugs, intentional self-harm	Diagnosis	ICD-10-CM
T42.6X2A	Poisoning by other antiepileptic and sedative-hypnotic drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T42.6X2D	Poisoning by other antiepileptic and sedative-hypnotic drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T42.6X2S	Poisoning by other antiepileptic and sedative-hypnotic drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T42.72	Poisoning by unspecified antiepileptic and sedative-hypnotic drugs, intentional self-harm	Diagnosis	ICD-10-CM
T42.72XA	Poisoning by unspecified antiepileptic and sedative-hypnotic drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T42.72XD	Poisoning by unspecified antiepileptic and sedative-hypnotic drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T42.72XS	Poisoning by unspecified antiepileptic and sedative-hypnotic drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T42.8X2	Poisoning by antiparkinsonism drugs and other central muscle-tone depressants, intentional self-harm	Diagnosis	ICD-10-CM
T42.8X2A	Poisoning by antiparkinsonism drugs and other central muscle-tone depressants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T42.8X2D	Poisoning by antiparkinsonism drugs and other central muscle-tone depressants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T42.8X2S	Poisoning by antiparkinsonism drugs and other central muscle-tone depressants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.012	Poisoning by tricyclic antidepressants, intentional self-harm	Diagnosis	ICD-10-CM
T43.012A	Poisoning by tricyclic antidepressants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.012D	Poisoning by tricyclic antidepressants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.012S	Poisoning by tricyclic antidepressants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.022	Poisoning by tetracyclic antidepressants, intentional self-harm	Diagnosis	ICD-10-CM
T43.022A	Poisoning by tetracyclic antidepressants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.022D	Poisoning by tetracyclic antidepressants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.022S	Poisoning by tetracyclic antidepressants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.1X2	Poisoning by monoamine-oxidase-inhibitor antidepressants, intentional self-harm	Diagnosis	ICD-10-CM
T43.1X2A	Poisoning by monoamine-oxidase-inhibitor antidepressants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.1X2D	Poisoning by monoamine-oxidase-inhibitor antidepressants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.1X2S	Poisoning by monoamine-oxidase-inhibitor antidepressants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.202	Poisoning by unspecified antidepressants, intentional self-harm	Diagnosis	ICD-10-CM
T43.202A	Poisoning by unspecified antidepressants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.202D	Poisoning by unspecified antidepressants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.202S	Poisoning by unspecified antidepressants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.212	Poisoning by selective serotonin and norepinephrine reuptake inhibitors, intentional self-harm	Diagnosis	ICD-10-CM
T43.212A	Poisoning by selective serotonin and norepinephrine reuptake inhibitors, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.212D	Poisoning by selective serotonin and norepinephrine reuptake inhibitors, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.212S	Poisoning by selective serotonin and norepinephrine reuptake inhibitors, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.222	Poisoning by selective serotonin reuptake inhibitors, intentional self-harm	Diagnosis	ICD-10-CM
T43.222A	Poisoning by selective serotonin reuptake inhibitors, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.222D	Poisoning by selective serotonin reuptake inhibitors, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T43.222S	Poisoning by selective serotonin reuptake inhibitors, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.292	Poisoning by other antidepressants, intentional self-harm	Diagnosis	ICD-10-CM
T43.292A	Poisoning by other antidepressants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.292D	Poisoning by other antidepressants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.292S	Poisoning by other antidepressants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.3X2	Poisoning by phenothiazine antipsychotics and neuroleptics, intentional self-harm	Diagnosis	ICD-10-CM
T43.3X2A	Poisoning by phenothiazine antipsychotics and neuroleptics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.3X2D	Poisoning by phenothiazine antipsychotics and neuroleptics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.3X2S	Poisoning by phenothiazine antipsychotics and neuroleptics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.4X2	Poisoning by butyrophenone and thiothixene neuroleptics, intentional self-harm	Diagnosis	ICD-10-CM
T43.4X2A	Poisoning by butyrophenone and thiothixene neuroleptics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.4X2D	Poisoning by butyrophenone and thiothixene neuroleptics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.4X2S	Poisoning by butyrophenone and thiothixene neuroleptics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.502	Poisoning by unspecified antipsychotics and neuroleptics, intentional self-harm	Diagnosis	ICD-10-CM
T43.502A	Poisoning by unspecified antipsychotics and neuroleptics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.502D	Poisoning by unspecified antipsychotics and neuroleptics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.502S	Poisoning by unspecified antipsychotics and neuroleptics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.592	Poisoning by other antipsychotics and neuroleptics, intentional self-harm	Diagnosis	ICD-10-CM
T43.592A	Poisoning by other antipsychotics and neuroleptics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.592D	Poisoning by other antipsychotics and neuroleptics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.592S	Poisoning by other antipsychotics and neuroleptics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.602	Poisoning by unspecified psychostimulants, intentional self-harm	Diagnosis	ICD-10-CM
T43.602A	Poisoning by unspecified psychostimulants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.602D	Poisoning by unspecified psychostimulants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.602S	Poisoning by unspecified psychostimulants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.612	Poisoning by caffeine, intentional self-harm	Diagnosis	ICD-10-CM
T43.612A	Poisoning by caffeine, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T43.612D	Poisoning by caffeine, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.612S	Poisoning by caffeine, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.622	Poisoning by amphetamines, intentional self-harm	Diagnosis	ICD-10-CM
T43.622A	Poisoning by amphetamines, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.622D	Poisoning by amphetamines, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.622S	Poisoning by amphetamines, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.632	Poisoning by methylphenidate, intentional self-harm	Diagnosis	ICD-10-CM
T43.632A	Poisoning by methylphenidate, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.632D	Poisoning by methylphenidate, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.632S	Poisoning by methylphenidate, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.642	Poisoning by ecstasy, intentional self-harm	Diagnosis	ICD-10-CM
T43.642A	Poisoning by ecstasy, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.642D	Poisoning by ecstasy, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.642S	Poisoning by ecstasy, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.692	Poisoning by other psychostimulants, intentional self-harm	Diagnosis	ICD-10-CM
T43.692A	Poisoning by other psychostimulants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.692D	Poisoning by other psychostimulants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.692S	Poisoning by other psychostimulants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.8X2	Poisoning by other psychotropic drugs, intentional self-harm	Diagnosis	ICD-10-CM
T43.8X2A	Poisoning by other psychotropic drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.8X2D	Poisoning by other psychotropic drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.8X2S	Poisoning by other psychotropic drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.92	Poisoning by unspecified psychotropic drug, intentional self-harm	Diagnosis	ICD-10-CM
T43.92XA	Poisoning by unspecified psychotropic drug, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.92XD	Poisoning by unspecified psychotropic drug, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.92XS	Poisoning by unspecified psychotropic drug, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.0X2	Poisoning by anticholinesterase agents, intentional self-harm	Diagnosis	ICD-10-CM
T44.0X2A	Poisoning by anticholinesterase agents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T44.0X2D	Poisoning by anticholinesterase agents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T44.0X2S	Poisoning by anticholinesterase agents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.1X2	Poisoning by other parasympathomimetics [cholinergics], intentional self-harm	Diagnosis	ICD-10-CM
T44.1X2A	Poisoning by other parasympathomimetics [cholinergics], intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T44.1X2D	Poisoning by other parasympathomimetics [cholinergics], intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T44.1X2S	Poisoning by other parasympathomimetics [cholinergics], intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.2X2	Poisoning by ganglionic blocking drugs, intentional self-harm	Diagnosis	ICD-10-CM
T44.2X2A	Poisoning by ganglionic blocking drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T44.2X2D	Poisoning by ganglionic blocking drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T44.2X2S	Poisoning by ganglionic blocking drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.3X2	Poisoning by other parasympatholytics [anticholinergics and antimuscarinics] and spasmolytics, intentional self-harm	Diagnosis	ICD-10-CM
T44.3X2A	Poisoning by other parasympatholytics [anticholinergics and antimuscarinics] and spasmolytics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T44.3X2D	Poisoning by other parasympatholytics [anticholinergics and antimuscarinics] and spasmolytics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T44.3X2S	Poisoning by other parasympatholytics [anticholinergics and antimuscarinics] and spasmolytics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.4X2	Poisoning by predominantly alpha-adrenoreceptor agonists, intentional self-harm	Diagnosis	ICD-10-CM
T44.4X2A	Poisoning by predominantly alpha-adrenoreceptor agonists, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T44.4X2D	Poisoning by predominantly alpha-adrenoreceptor agonists, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T44.4X2S	Poisoning by predominantly alpha-adrenoreceptor agonists, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.5X2	Poisoning by predominantly beta-adrenoreceptor agonists, intentional self-harm	Diagnosis	ICD-10-CM
T44.5X2A	Poisoning by predominantly beta-adrenoreceptor agonists, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T44.5X2D	Poisoning by predominantly beta-adrenoreceptor agonists, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T44.5X2S	Poisoning by predominantly beta-adrenoreceptor agonists, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.6X2	Poisoning by alpha-adrenoreceptor antagonists, intentional self-harm	Diagnosis	ICD-10-CM
T44.6X2A	Poisoning by alpha-adrenoreceptor antagonists, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T44.6X2D	Poisoning by alpha-adrenoreceptor antagonists, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T44.6X2S	Poisoning by alpha-adrenoreceptor antagonists, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.7X2	Poisoning by beta-adrenoreceptor antagonists, intentional self-harm	Diagnosis	ICD-10-CM
T44.7X2A	Poisoning by beta-adrenoreceptor antagonists, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T44.7X2D	Poisoning by beta-adrenoreceptor antagonists, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T44.7X2S	Poisoning by beta-adrenoreceptor antagonists, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.8X2	Poisoning by centrally-acting and adrenergic-neuron-blocking agents, intentional self-harm	Diagnosis	ICD-10-CM
T44.8X2A	Poisoning by centrally-acting and adrenergic-neuron-blocking agents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T44.8X2D	Poisoning by centrally-acting and adrenergic-neuron-blocking agents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T44.8X2S	Poisoning by centrally-acting and adrenergic-neuron-blocking agents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.902	Poisoning by unspecified drugs primarily affecting the autonomic nervous system, intentional self-harm	Diagnosis	ICD-10-CM
T44.902A	Poisoning by unspecified drugs primarily affecting the autonomic nervous system, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T44.902D	Poisoning by unspecified drugs primarily affecting the autonomic nervous system, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T44.902S	Poisoning by unspecified drugs primarily affecting the autonomic nervous system, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T44.992	Poisoning by other drug primarily affecting the autonomic nervous system, intentional self-harm	Diagnosis	ICD-10-CM
T44.992A	Poisoning by other drug primarily affecting the autonomic nervous system, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T44.992D	Poisoning by other drug primarily affecting the autonomic nervous system, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T44.992S	Poisoning by other drug primarily affecting the autonomic nervous system, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.0X2	Poisoning by antiallergic and antiemetic drugs, intentional self-harm	Diagnosis	ICD-10-CM
T45.0X2A	Poisoning by antiallergic and antiemetic drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.0X2D	Poisoning by antiallergic and antiemetic drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.0X2S	Poisoning by antiallergic and antiemetic drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.1X2	Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm	Diagnosis	ICD-10-CM
T45.1X2A	Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.1X2D	Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.1X2S	Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.2X2	Poisoning by vitamins, intentional self-harm	Diagnosis	ICD-10-CM
T45.2X2A	Poisoning by vitamins, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.2X2D	Poisoning by vitamins, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.2X2S	Poisoning by vitamins, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.3X2	Poisoning by enzymes, intentional self-harm	Diagnosis	ICD-10-CM
T45.3X2A	Poisoning by enzymes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.3X2D	Poisoning by enzymes, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.3X2S	Poisoning by enzymes, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.4X2	Poisoning by iron and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T45.4X2A	Poisoning by iron and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.4X2D	Poisoning by iron and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.4X2S	Poisoning by iron and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T45.512	Poisoning by anticoagulants, intentional self-harm	Diagnosis	ICD-10-CM
T45.512A	Poisoning by anticoagulants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.512D	Poisoning by anticoagulants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.512S	Poisoning by anticoagulants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.522	Poisoning by antithrombotic drugs, intentional self-harm	Diagnosis	ICD-10-CM
T45.522A	Poisoning by antithrombotic drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.522D	Poisoning by antithrombotic drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.522S	Poisoning by antithrombotic drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.602	Poisoning by unspecified fibrinolysis-affecting drugs, intentional self-harm	Diagnosis	ICD-10-CM
T45.602A	Poisoning by unspecified fibrinolysis-affecting drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.602D	Poisoning by unspecified fibrinolysis-affecting drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.602S	Poisoning by unspecified fibrinolysis-affecting drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.612	Poisoning by thrombolytic drug, intentional self-harm	Diagnosis	ICD-10-CM
T45.612A	Poisoning by thrombolytic drug, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.612D	Poisoning by thrombolytic drug, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.612S	Poisoning by thrombolytic drug, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.622	Poisoning by hemostatic drug, intentional self-harm	Diagnosis	ICD-10-CM
T45.622A	Poisoning by hemostatic drug, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.622D	Poisoning by hemostatic drug, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.622S	Poisoning by hemostatic drug, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.692	Poisoning by other fibrinolysis-affecting drugs, intentional self-harm	Diagnosis	ICD-10-CM
T45.692A	Poisoning by other fibrinolysis-affecting drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.692D	Poisoning by other fibrinolysis-affecting drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.692S	Poisoning by other fibrinolysis-affecting drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.7X2	Poisoning by anticoagulant antagonists, vitamin K and other coagulants, intentional self-harm	Diagnosis	ICD-10-CM
T45.7X2A	Poisoning by anticoagulant antagonists, vitamin K and other coagulants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.7X2D	Poisoning by anticoagulant antagonists, vitamin K and other coagulants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.7X2S	Poisoning by anticoagulant antagonists, vitamin K and other coagulants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.8X2	Poisoning by other primarily systemic and hematological agents, intentional self-harm	Diagnosis	ICD-10-CM
T45.8X2A	Poisoning by other primarily systemic and hematological agents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.8X2D	Poisoning by other primarily systemic and hematological agents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T45.8X2S	Poisoning by other primarily systemic and hematological agents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.92	Poisoning by unspecified primarily systemic and hematological agent, intentional self-harm	Diagnosis	ICD-10-CM
T45.92XA	Poisoning by unspecified primarily systemic and hematological agent, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.92XD	Poisoning by unspecified primarily systemic and hematological agent, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.92XS	Poisoning by unspecified primarily systemic and hematological agent, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.0X2	Poisoning by cardiac-stimulant glycosides and drugs of similar action, intentional self-harm	Diagnosis	ICD-10-CM
T46.0X2A	Poisoning by cardiac-stimulant glycosides and drugs of similar action, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T46.0X2D	Poisoning by cardiac-stimulant glycosides and drugs of similar action, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.0X2S	Poisoning by cardiac-stimulant glycosides and drugs of similar action, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.1X2	Poisoning by calcium-channel blockers, intentional self-harm	Diagnosis	ICD-10-CM
T46.1X2A	Poisoning by calcium-channel blockers, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T46.1X2D	Poisoning by calcium-channel blockers, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.1X2S	Poisoning by calcium-channel blockers, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.2X2	Poisoning by other antidysrhythmic drugs, intentional self-harm	Diagnosis	ICD-10-CM
T46.2X2A	Poisoning by other antidysrhythmic drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T46.2X2D	Poisoning by other antidysrhythmic drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.2X2S	Poisoning by other antidysrhythmic drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.3X2	Poisoning by coronary vasodilators, intentional self-harm	Diagnosis	ICD-10-CM
T46.3X2A	Poisoning by coronary vasodilators, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T46.3X2D	Poisoning by coronary vasodilators, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.3X2S	Poisoning by coronary vasodilators, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.4X2	Poisoning by angiotensin-converting-enzyme inhibitors, intentional self-harm	Diagnosis	ICD-10-CM
T46.4X2A	Poisoning by angiotensin-converting-enzyme inhibitors, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T46.4X2D	Poisoning by angiotensin-converting-enzyme inhibitors, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.4X2S	Poisoning by angiotensin-converting-enzyme inhibitors, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.5X2	Poisoning by other antihypertensive drugs, intentional self-harm	Diagnosis	ICD-10-CM
T46.5X2A	Poisoning by other antihypertensive drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T46.5X2D	Poisoning by other antihypertensive drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.5X2S	Poisoning by other antihypertensive drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.6X2	Poisoning by antihyperlipidemic and antiarteriosclerotic drugs, intentional self-harm	Diagnosis	ICD-10-CM
T46.6X2A	Poisoning by antihyperlipidemic and antiarteriosclerotic drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T46.6X2D	Poisoning by antihyperlipidemic and antiarteriosclerotic drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.6X2S	Poisoning by antihyperlipidemic and antiarteriosclerotic drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.7X2	Poisoning by peripheral vasodilators, intentional self-harm	Diagnosis	ICD-10-CM
T46.7X2A	Poisoning by peripheral vasodilators, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T46.7X2D	Poisoning by peripheral vasodilators, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.7X2S	Poisoning by peripheral vasodilators, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.8X2	Poisoning by antivaricose drugs, including sclerosing agents, intentional self-harm	Diagnosis	ICD-10-CM
T46.8X2A	Poisoning by antivaricose drugs, including sclerosing agents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T46.8X2D	Poisoning by antivaricose drugs, including sclerosing agents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.8X2S	Poisoning by antivaricose drugs, including sclerosing agents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.902	Poisoning by unspecified agents primarily affecting the cardiovascular system, intentional self-harm	Diagnosis	ICD-10-CM
T46.902A	Poisoning by unspecified agents primarily affecting the cardiovascular system, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T46.902D	Poisoning by unspecified agents primarily affecting the cardiovascular system, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.902S	Poisoning by unspecified agents primarily affecting the cardiovascular system, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T46.992	Poisoning by other agents primarily affecting the cardiovascular system, intentional self-harm	Diagnosis	ICD-10-CM
T46.992A	Poisoning by other agents primarily affecting the cardiovascular system, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T46.992D	Poisoning by other agents primarily affecting the cardiovascular system, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T46.992S	Poisoning by other agents primarily affecting the cardiovascular system, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T47.0X2	Poisoning by histamine H2-receptor blockers, intentional self-harm	Diagnosis	ICD-10-CM
T47.0X2A	Poisoning by histamine H2-receptor blockers, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T47.0X2D	Poisoning by histamine H2-receptor blockers, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T47.0X2S	Poisoning by histamine H2-receptor blockers, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T47.1X2	Poisoning by other antacids and anti-gastric-secretion drugs, intentional self-harm	Diagnosis	ICD-10-CM
T47.1X2A	Poisoning by other antacids and anti-gastric-secretion drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T47.1X2D	Poisoning by other antacids and anti-gastric-secretion drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T47.1X2S	Poisoning by other antacids and anti-gastric-secretion drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T47.2X2	Poisoning by stimulant laxatives, intentional self-harm	Diagnosis	ICD-10-CM
T47.2X2A	Poisoning by stimulant laxatives, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T47.2X2D	Poisoning by stimulant laxatives, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T47.2X2S	Poisoning by stimulant laxatives, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T47.3X2	Poisoning by saline and osmotic laxatives, intentional self-harm	Diagnosis	ICD-10-CM
T47.3X2A	Poisoning by saline and osmotic laxatives, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T47.3X2D	Poisoning by saline and osmotic laxatives, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T47.3X2S	Poisoning by saline and osmotic laxatives, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T47.4X2	Poisoning by other laxatives, intentional self-harm	Diagnosis	ICD-10-CM
T47.4X2A	Poisoning by other laxatives, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T47.4X2D	Poisoning by other laxatives, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T47.4X2S	Poisoning by other laxatives, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T47.5X2	Poisoning by digestants, intentional self-harm	Diagnosis	ICD-10-CM
T47.5X2A	Poisoning by digestants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T47.5X2D	Poisoning by digestants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T47.5X2S	Poisoning by digestants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T47.6X2	Poisoning by antidiarrheal drugs, intentional self-harm	Diagnosis	ICD-10-CM
T47.6X2A	Poisoning by antidiarrheal drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T47.6X2D	Poisoning by antidiarrheal drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T47.6X2S	Poisoning by antidiarrheal drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T47.7X2	Poisoning by emetics, intentional self-harm	Diagnosis	ICD-10-CM
T47.7X2A	Poisoning by emetics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T47.7X2D	Poisoning by emetics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T47.7X2S	Poisoning by emetics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T47.8X2	Poisoning by other agents primarily affecting gastrointestinal system, intentional self-harm	Diagnosis	ICD-10-CM
T47.8X2A	Poisoning by other agents primarily affecting gastrointestinal system, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T47.8X2D	Poisoning by other agents primarily affecting gastrointestinal system, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T47.8X2S	Poisoning by other agents primarily affecting gastrointestinal system, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T47.92	Poisoning by unspecified agents primarily affecting the gastrointestinal system, intentional self-harm	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T47.92XA	Poisoning by unspecified agents primarily affecting the gastrointestinal system, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T47.92XD	Poisoning by unspecified agents primarily affecting the gastrointestinal system, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T47.92XS	Poisoning by unspecified agents primarily affecting the gastrointestinal system, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T48.0X2	Poisoning by oxytocic drugs, intentional self-harm	Diagnosis	ICD-10-CM
T48.0X2A	Poisoning by oxytocic drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T48.0X2D	Poisoning by oxytocic drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T48.0X2S	Poisoning by oxytocic drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T48.1X2	Poisoning by skeletal muscle relaxants [neuromuscular blocking agents], intentional self-harm	Diagnosis	ICD-10-CM
T48.1X2A	Poisoning by skeletal muscle relaxants [neuromuscular blocking agents], intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T48.1X2D	Poisoning by skeletal muscle relaxants [neuromuscular blocking agents], intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T48.1X2S	Poisoning by skeletal muscle relaxants [neuromuscular blocking agents], intentional self-harm, sequela	Diagnosis	ICD-10-CM
T48.202	Poisoning by unspecified drugs acting on muscles, intentional self-harm	Diagnosis	ICD-10-CM
T48.202A	Poisoning by unspecified drugs acting on muscles, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T48.202D	Poisoning by unspecified drugs acting on muscles, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T48.202S	Poisoning by unspecified drugs acting on muscles, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T48.292	Poisoning by other drugs acting on muscles, intentional self-harm	Diagnosis	ICD-10-CM
T48.292A	Poisoning by other drugs acting on muscles, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T48.292D	Poisoning by other drugs acting on muscles, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T48.292S	Poisoning by other drugs acting on muscles, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T48.3X2	Poisoning by antitussives, intentional self-harm	Diagnosis	ICD-10-CM
T48.3X2A	Poisoning by antitussives, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T48.3X2D	Poisoning by antitussives, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T48.3X2S	Poisoning by antitussives, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T48.4X2	Poisoning by expectorants, intentional self-harm	Diagnosis	ICD-10-CM
T48.4X2A	Poisoning by expectorants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T48.4X2D	Poisoning by expectorants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T48.4X2S	Poisoning by expectorants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T48.5X2	Poisoning by other anti-common-cold drugs, intentional self-harm	Diagnosis	ICD-10-CM
T48.5X2A	Poisoning by other anti-common-cold drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T48.5X2D	Poisoning by other anti-common-cold drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T48.5X2S	Poisoning by other anti-common-cold drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T48.6X2	Poisoning by antiasthmatics, intentional self-harm	Diagnosis	ICD-10-CM
T48.6X2A	Poisoning by antiasthmatics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T48.6X2D	Poisoning by antiasthmatics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T48.6X2S	Poisoning by antiasthmatics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T48.902	Poisoning by unspecified agents primarily acting on the respiratory system, intentional self-harm	Diagnosis	ICD-10-CM
T48.902A	Poisoning by unspecified agents primarily acting on the respiratory system, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T48.902D	Poisoning by unspecified agents primarily acting on the respiratory system, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T48.902S	Poisoning by unspecified agents primarily acting on the respiratory system, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T48.992	Poisoning by other agents primarily acting on the respiratory system, intentional self-harm	Diagnosis	ICD-10-CM
T48.992A	Poisoning by other agents primarily acting on the respiratory system, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T48.992D	Poisoning by other agents primarily acting on the respiratory system, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T48.992S	Poisoning by other agents primarily acting on the respiratory system, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T49.0X2	Poisoning by local antifungal, anti-infective and anti-inflammatory drugs, intentional self-harm	Diagnosis	ICD-10-CM
T49.0X2A	Poisoning by local antifungal, anti-infective and anti-inflammatory drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T49.0X2D	Poisoning by local antifungal, anti-infective and anti-inflammatory drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T49.0X2S	Poisoning by local antifungal, anti-infective and anti-inflammatory drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T49.1X2	Poisoning by antipruritics, intentional self-harm	Diagnosis	ICD-10-CM
T49.1X2A	Poisoning by antipruritics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T49.1X2D	Poisoning by antipruritics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T49.1X2S	Poisoning by antipruritics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T49.2X2	Poisoning by local astringents and local detergents, intentional self-harm	Diagnosis	ICD-10-CM
T49.2X2A	Poisoning by local astringents and local detergents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T49.2X2D	Poisoning by local astringents and local detergents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T49.2X2S	Poisoning by local astringents and local detergents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T49.3X2	Poisoning by emollients, demulcents and protectants, intentional self-harm	Diagnosis	ICD-10-CM
T49.3X2A	Poisoning by emollients, demulcents and protectants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T49.3X2D	Poisoning by emollients, demulcents and protectants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T49.3X2S	Poisoning by emollients, demulcents and protectants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T49.4X2	Poisoning by keratolytics, keratoplastics, and other hair treatment drugs and preparations, intentional self-harm	Diagnosis	ICD-10-CM
T49.4X2A	Poisoning by keratolytics, keratoplastics, and other hair treatment drugs and preparations, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T49.4X2D	Poisoning by keratolytics, keratoplastics, and other hair treatment drugs and preparations, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T49.4X2S	Poisoning by keratolytics, keratoplastics, and other hair treatment drugs and preparations, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T49.5X2	Poisoning by ophthalmological drugs and preparations, intentional self-harm	Diagnosis	ICD-10-CM
T49.5X2A	Poisoning by ophthalmological drugs and preparations, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T49.5X2D	Poisoning by ophthalmological drugs and preparations, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T49.5X2S	Poisoning by ophthalmological drugs and preparations, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T49.6X2	Poisoning by otorhinolaryngological drugs and preparations, intentional self-harm	Diagnosis	ICD-10-CM
T49.6X2A	Poisoning by otorhinolaryngological drugs and preparations, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T49.6X2D	Poisoning by otorhinolaryngological drugs and preparations, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T49.6X2S	Poisoning by otorhinolaryngological drugs and preparations, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T49.7X2	Poisoning by dental drugs, topically applied, intentional self-harm	Diagnosis	ICD-10-CM
T49.7X2A	Poisoning by dental drugs, topically applied, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T49.7X2D	Poisoning by dental drugs, topically applied, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T49.7X2S	Poisoning by dental drugs, topically applied, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T49.8X2	Poisoning by other topical agents, intentional self-harm	Diagnosis	ICD-10-CM
T49.8X2A	Poisoning by other topical agents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T49.8X2D	Poisoning by other topical agents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T49.8X2S	Poisoning by other topical agents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T49.92	Poisoning by unspecified topical agent, intentional self-harm	Diagnosis	ICD-10-CM
T49.92XA	Poisoning by unspecified topical agent, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T49.92XD	Poisoning by unspecified topical agent, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T49.92XS	Poisoning by unspecified topical agent, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.0X2	Poisoning by mineralocorticoids and their antagonists, intentional self-harm	Diagnosis	ICD-10-CM
T50.0X2A	Poisoning by mineralocorticoids and their antagonists, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.0X2D	Poisoning by mineralocorticoids and their antagonists, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T50.0X2S	Poisoning by mineralocorticoids and their antagonists, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.1X2	Poisoning by loop [high-ceiling] diuretics, intentional self-harm	Diagnosis	ICD-10-CM
T50.1X2A	Poisoning by loop [high-ceiling] diuretics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.1X2D	Poisoning by loop [high-ceiling] diuretics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.1X2S	Poisoning by loop [high-ceiling] diuretics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.2X2	Poisoning by carbonic-anhydrase inhibitors, benzothiadiazides and other diuretics, intentional self-harm	Diagnosis	ICD-10-CM
T50.2X2A	Poisoning by carbonic-anhydrase inhibitors, benzothiadiazides and other diuretics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.2X2D	Poisoning by carbonic-anhydrase inhibitors, benzothiadiazides and other diuretics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.2X2S	Poisoning by carbonic-anhydrase inhibitors, benzothiadiazides and other diuretics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.3X2	Poisoning by electrolytic, caloric and water-balance agents, intentional self-harm	Diagnosis	ICD-10-CM
T50.3X2A	Poisoning by electrolytic, caloric and water-balance agents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.3X2D	Poisoning by electrolytic, caloric and water-balance agents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.3X2S	Poisoning by electrolytic, caloric and water-balance agents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.4X2	Poisoning by drugs affecting uric acid metabolism, intentional self-harm	Diagnosis	ICD-10-CM
T50.4X2A	Poisoning by drugs affecting uric acid metabolism, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.4X2D	Poisoning by drugs affecting uric acid metabolism, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.4X2S	Poisoning by drugs affecting uric acid metabolism, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.5X2	Poisoning by appetite depressants, intentional self-harm	Diagnosis	ICD-10-CM
T50.5X2A	Poisoning by appetite depressants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.5X2D	Poisoning by appetite depressants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.5X2S	Poisoning by appetite depressants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.6X2	Poisoning by antidotes and chelating agents, intentional self-harm	Diagnosis	ICD-10-CM
T50.6X2A	Poisoning by antidotes and chelating agents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.6X2D	Poisoning by antidotes and chelating agents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.6X2S	Poisoning by antidotes and chelating agents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.7X2	Poisoning by analeptics and opioid receptor antagonists, intentional self-harm	Diagnosis	ICD-10-CM
T50.7X2A	Poisoning by analeptics and opioid receptor antagonists, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T50.7X2D	Poisoning by analeptics and opioid receptor antagonists, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.7X2S	Poisoning by analeptics and opioid receptor antagonists, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.8X2	Poisoning by diagnostic agents, intentional self-harm	Diagnosis	ICD-10-CM
T50.8X2A	Poisoning by diagnostic agents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.8X2D	Poisoning by diagnostic agents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.8X2S	Poisoning by diagnostic agents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.902	Poisoning by unspecified drugs, medicaments and biological substances, intentional self-harm	Diagnosis	ICD-10-CM
T50.902A	Poisoning by unspecified drugs, medicaments and biological substances, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.902D	Poisoning by unspecified drugs, medicaments and biological substances, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.902S	Poisoning by unspecified drugs, medicaments and biological substances, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.912	Poisoning by multiple unspecified drugs, medicaments and biological substances, intentional self-harm	Diagnosis	ICD-10-CM
T50.912A	Poisoning by multiple unspecified drugs, medicaments and biological substances, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.912D	Poisoning by multiple unspecified drugs, medicaments and biological substances, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.912S	Poisoning by multiple unspecified drugs, medicaments and biological substances, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.992	Poisoning by other drugs, medicaments and biological substances, intentional self-harm	Diagnosis	ICD-10-CM
T50.992A	Poisoning by other drugs, medicaments and biological substances, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.992D	Poisoning by other drugs, medicaments and biological substances, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.992S	Poisoning by other drugs, medicaments and biological substances, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.A12	Poisoning by pertussis vaccine, including combinations with a pertussis component, intentional self-harm	Diagnosis	ICD-10-CM
T50.A12A	Poisoning by pertussis vaccine, including combinations with a pertussis component, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.A12D	Poisoning by pertussis vaccine, including combinations with a pertussis component, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.A12S	Poisoning by pertussis vaccine, including combinations with a pertussis component, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.A22	Poisoning by mixed bacterial vaccines without a pertussis component, intentional self-harm	Diagnosis	ICD-10-CM
T50.A22A	Poisoning by mixed bacterial vaccines without a pertussis component, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T50.A22D	Poisoning by mixed bacterial vaccines without a pertussis component, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.A22S	Poisoning by mixed bacterial vaccines without a pertussis component, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.A92	Poisoning by other bacterial vaccines, intentional self-harm	Diagnosis	ICD-10-CM
T50.A92A	Poisoning by other bacterial vaccines, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.A92D	Poisoning by other bacterial vaccines, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.A92S	Poisoning by other bacterial vaccines, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.B12	Poisoning by smallpox vaccines, intentional self-harm	Diagnosis	ICD-10-CM
T50.B12A	Poisoning by smallpox vaccines, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.B12D	Poisoning by smallpox vaccines, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.B12S	Poisoning by smallpox vaccines, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.B92	Poisoning by other viral vaccines, intentional self-harm	Diagnosis	ICD-10-CM
T50.B92A	Poisoning by other viral vaccines, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.B92D	Poisoning by other viral vaccines, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.B92S	Poisoning by other viral vaccines, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.Z12	Poisoning by immunoglobulin, intentional self-harm	Diagnosis	ICD-10-CM
T50.Z12A	Poisoning by immunoglobulin, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.Z12D	Poisoning by immunoglobulin, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.Z12S	Poisoning by immunoglobulin, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T50.Z92	Poisoning by other vaccines and biological substances, intentional self-harm	Diagnosis	ICD-10-CM
T50.Z92A	Poisoning by other vaccines and biological substances, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T50.Z92D	Poisoning by other vaccines and biological substances, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T50.Z92S	Poisoning by other vaccines and biological substances, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T51.0X2	Toxic effect of ethanol, intentional self-harm	Diagnosis	ICD-10-CM
T51.0X2A	Toxic effect of ethanol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T51.0X2D	Toxic effect of ethanol, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T51.0X2S	Toxic effect of ethanol, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T51.1X2	Toxic effect of methanol, intentional self-harm	Diagnosis	ICD-10-CM
T51.1X2A	Toxic effect of methanol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T51.1X2D	Toxic effect of methanol, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T51.1X2S	Toxic effect of methanol, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T51.2X2	Toxic effect of 2-Propanol, intentional self-harm	Diagnosis	ICD-10-CM
T51.2X2A	Toxic effect of 2-Propanol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T51.2X2D	Toxic effect of 2-Propanol, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T51.2X2S	Toxic effect of 2-Propanol, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T51.3X2	Toxic effect of fusel oil, intentional self-harm	Diagnosis	ICD-10-CM
T51.3X2A	Toxic effect of fusel oil, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T51.3X2D	Toxic effect of fusel oil, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T51.3X2S	Toxic effect of fusel oil, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T51.8X2	Toxic effect of other alcohols, intentional self-harm	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T51.8X2A	Toxic effect of other alcohols, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T51.8X2D	Toxic effect of other alcohols, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T51.8X2S	Toxic effect of other alcohols, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T51.92	Toxic effect of unspecified alcohol, intentional self-harm	Diagnosis	ICD-10-CM
T51.92XA	Toxic effect of unspecified alcohol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T51.92XD	Toxic effect of unspecified alcohol, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T51.92XS	Toxic effect of unspecified alcohol, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T52.0X2	Toxic effect of petroleum products, intentional self-harm	Diagnosis	ICD-10-CM
T52.0X2A	Toxic effect of petroleum products, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T52.0X2D	Toxic effect of petroleum products, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T52.0X2S	Toxic effect of petroleum products, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T52.1X2	Toxic effect of benzene, intentional self-harm	Diagnosis	ICD-10-CM
T52.1X2A	Toxic effect of benzene, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T52.1X2D	Toxic effect of benzene, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T52.1X2S	Toxic effect of benzene, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T52.2X2	Toxic effect of homologues of benzene, intentional self-harm	Diagnosis	ICD-10-CM
T52.2X2A	Toxic effect of homologues of benzene, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T52.2X2D	Toxic effect of homologues of benzene, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T52.2X2S	Toxic effect of homologues of benzene, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T52.3X2	Toxic effect of glycols, intentional self-harm	Diagnosis	ICD-10-CM
T52.3X2A	Toxic effect of glycols, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T52.3X2D	Toxic effect of glycols, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T52.3X2S	Toxic effect of glycols, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T52.4X2	Toxic effect of ketones, intentional self-harm	Diagnosis	ICD-10-CM
T52.4X2A	Toxic effect of ketones, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T52.4X2D	Toxic effect of ketones, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T52.4X2S	Toxic effect of ketones, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T52.8X2	Toxic effect of other organic solvents, intentional self-harm	Diagnosis	ICD-10-CM
T52.8X2A	Toxic effect of other organic solvents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T52.8X2D	Toxic effect of other organic solvents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T52.8X2S	Toxic effect of other organic solvents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T52.92	Toxic effect of unspecified organic solvent, intentional self-harm	Diagnosis	ICD-10-CM
T52.92XA	Toxic effect of unspecified organic solvent, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T52.92XD	Toxic effect of unspecified organic solvent, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T52.92XS	Toxic effect of unspecified organic solvent, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T53.0X2	Toxic effect of carbon tetrachloride, intentional self-harm	Diagnosis	ICD-10-CM
T53.0X2A	Toxic effect of carbon tetrachloride, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T53.0X2D	Toxic effect of carbon tetrachloride, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T53.0X2S	Toxic effect of carbon tetrachloride, intentional self-harm, sequela	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T53.1X2	Toxic effect of chloroform, intentional self-harm	Diagnosis	ICD-10-CM
T53.1X2A	Toxic effect of chloroform, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T53.1X2D	Toxic effect of chloroform, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T53.1X2S	Toxic effect of chloroform, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T53.2X2	Toxic effect of trichloroethylene, intentional self-harm	Diagnosis	ICD-10-CM
T53.2X2A	Toxic effect of trichloroethylene, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T53.2X2D	Toxic effect of trichloroethylene, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T53.2X2S	Toxic effect of trichloroethylene, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T53.3X2	Toxic effect of tetrachloroethylene, intentional self-harm	Diagnosis	ICD-10-CM
T53.3X2A	Toxic effect of tetrachloroethylene, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T53.3X2D	Toxic effect of tetrachloroethylene, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T53.3X2S	Toxic effect of tetrachloroethylene, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T53.4X2	Toxic effect of dichloromethane, intentional self-harm	Diagnosis	ICD-10-CM
T53.4X2A	Toxic effect of dichloromethane, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T53.4X2D	Toxic effect of dichloromethane, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T53.4X2S	Toxic effect of dichloromethane, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T53.5X2	Toxic effect of chlorofluorocarbons, intentional self-harm	Diagnosis	ICD-10-CM
T53.5X2A	Toxic effect of chlorofluorocarbons, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T53.5X2D	Toxic effect of chlorofluorocarbons, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T53.5X2S	Toxic effect of chlorofluorocarbons, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T53.6X2	Toxic effect of other halogen derivatives of aliphatic hydrocarbons, intentional self-harm	Diagnosis	ICD-10-CM
T53.6X2A	Toxic effect of other halogen derivatives of aliphatic hydrocarbons, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T53.6X2D	Toxic effect of other halogen derivatives of aliphatic hydrocarbons, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T53.6X2S	Toxic effect of other halogen derivatives of aliphatic hydrocarbons, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T53.7X2	Toxic effect of other halogen derivatives of aromatic hydrocarbons, intentional self-harm	Diagnosis	ICD-10-CM
T53.7X2A	Toxic effect of other halogen derivatives of aromatic hydrocarbons, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T53.7X2D	Toxic effect of other halogen derivatives of aromatic hydrocarbons, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T53.7X2S	Toxic effect of other halogen derivatives of aromatic hydrocarbons, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T53.92	Toxic effect of unspecified halogen derivatives of aliphatic and aromatic hydrocarbons, intentional self-harm	Diagnosis	ICD-10-CM
T53.92XA	Toxic effect of unspecified halogen derivatives of aliphatic and aromatic hydrocarbons, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T53.92XD	Toxic effect of unspecified halogen derivatives of aliphatic and aromatic hydrocarbons, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T53.92XS	Toxic effect of unspecified halogen derivatives of aliphatic and aromatic hydrocarbons, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T54.0X2	Toxic effect of phenol and phenol homologues, intentional self-harm	Diagnosis	ICD-10-CM
T54.0X2A	Toxic effect of phenol and phenol homologues, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T54.0X2D	Toxic effect of phenol and phenol homologues, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T54.0X2S	Toxic effect of phenol and phenol homologues, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T54.1X2	Toxic effect of other corrosive organic compounds, intentional self-harm	Diagnosis	ICD-10-CM
T54.1X2A	Toxic effect of other corrosive organic compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T54.1X2D	Toxic effect of other corrosive organic compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T54.1X2S	Toxic effect of other corrosive organic compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T54.2X2	Toxic effect of corrosive acids and acid-like substances, intentional self-harm	Diagnosis	ICD-10-CM
T54.2X2A	Toxic effect of corrosive acids and acid-like substances, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T54.2X2D	Toxic effect of corrosive acids and acid-like substances, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T54.2X2S	Toxic effect of corrosive acids and acid-like substances, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T54.3X2	Toxic effect of corrosive alkalis and alkali-like substances, intentional self-harm	Diagnosis	ICD-10-CM
T54.3X2A	Toxic effect of corrosive alkalis and alkali-like substances, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T54.3X2D	Toxic effect of corrosive alkalis and alkali-like substances, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T54.3X2S	Toxic effect of corrosive alkalis and alkali-like substances, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T54.92	Toxic effect of unspecified corrosive substance, intentional self-harm	Diagnosis	ICD-10-CM
T54.92XA	Toxic effect of unspecified corrosive substance, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T54.92XD	Toxic effect of unspecified corrosive substance, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T54.92XS	Toxic effect of unspecified corrosive substance, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T55.0X2	Toxic effect of soaps, intentional self-harm	Diagnosis	ICD-10-CM
T55.0X2A	Toxic effect of soaps, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T55.0X2D	Toxic effect of soaps, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T55.0X2S	Toxic effect of soaps, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T55.1X2	Toxic effect of detergents, intentional self-harm	Diagnosis	ICD-10-CM
T55.1X2A	Toxic effect of detergents, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T55.1X2D	Toxic effect of detergents, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T55.1X2S	Toxic effect of detergents, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.0X2	Toxic effect of lead and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T56.0X2A	Toxic effect of lead and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T56.0X2D	Toxic effect of lead and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.0X2S	Toxic effect of lead and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.1X2	Toxic effect of mercury and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T56.1X2A	Toxic effect of mercury and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T56.1X2D	Toxic effect of mercury and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.1X2S	Toxic effect of mercury and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.2X2	Toxic effect of chromium and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T56.2X2A	Toxic effect of chromium and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T56.2X2D	Toxic effect of chromium and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.2X2S	Toxic effect of chromium and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.3X2	Toxic effect of cadmium and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T56.3X2A	Toxic effect of cadmium and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T56.3X2D	Toxic effect of cadmium and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.3X2S	Toxic effect of cadmium and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.4X2	Toxic effect of copper and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T56.4X2A	Toxic effect of copper and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T56.4X2D	Toxic effect of copper and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.4X2S	Toxic effect of copper and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.5X2	Toxic effect of zinc and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T56.5X2A	Toxic effect of zinc and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T56.5X2D	Toxic effect of zinc and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.5X2S	Toxic effect of zinc and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.6X2	Toxic effect of tin and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T56.6X2A	Toxic effect of tin and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T56.6X2D	Toxic effect of tin and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.6X2S	Toxic effect of tin and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.7X2	Toxic effect of beryllium and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T56.7X2A	Toxic effect of beryllium and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T56.7X2D	Toxic effect of beryllium and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.7X2S	Toxic effect of beryllium and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.812	Toxic effect of thallium, intentional self-harm	Diagnosis	ICD-10-CM
T56.812A	Toxic effect of thallium, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T56.812D	Toxic effect of thallium, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.812S	Toxic effect of thallium, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.892	Toxic effect of other metals, intentional self-harm	Diagnosis	ICD-10-CM
T56.892A	Toxic effect of other metals, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T56.892D	Toxic effect of other metals, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.892S	Toxic effect of other metals, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T56.92	Toxic effect of unspecified metal, intentional self-harm	Diagnosis	ICD-10-CM
T56.92XA	Toxic effect of unspecified metal, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T56.92XD	Toxic effect of unspecified metal, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T56.92XS	Toxic effect of unspecified metal, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T57.0X2	Toxic effect of arsenic and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T57.0X2A	Toxic effect of arsenic and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T57.0X2D	Toxic effect of arsenic and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T57.0X2S	Toxic effect of arsenic and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T57.1X2	Toxic effect of phosphorus and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T57.1X2A	Toxic effect of phosphorus and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T57.1X2D	Toxic effect of phosphorus and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T57.1X2S	Toxic effect of phosphorus and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T57.2X2	Toxic effect of manganese and its compounds, intentional self-harm	Diagnosis	ICD-10-CM
T57.2X2A	Toxic effect of manganese and its compounds, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T57.2X2D	Toxic effect of manganese and its compounds, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T57.2X2S	Toxic effect of manganese and its compounds, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T57.3X2	Toxic effect of hydrogen cyanide, intentional self-harm	Diagnosis	ICD-10-CM
T57.3X2A	Toxic effect of hydrogen cyanide, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T57.3X2D	Toxic effect of hydrogen cyanide, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T57.3X2S	Toxic effect of hydrogen cyanide, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T57.8X2	Toxic effect of other specified inorganic substances, intentional self-harm	Diagnosis	ICD-10-CM
T57.8X2A	Toxic effect of other specified inorganic substances, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T57.8X2D	Toxic effect of other specified inorganic substances, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T57.8X2S	Toxic effect of other specified inorganic substances, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T57.92	Toxic effect of unspecified inorganic substance, intentional self-harm	Diagnosis	ICD-10-CM
T57.92XA	Toxic effect of unspecified inorganic substance, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T57.92XD	Toxic effect of unspecified inorganic substance, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T57.92XS	Toxic effect of unspecified inorganic substance, intentional self-harm, sequela	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T58.02	Toxic effect of carbon monoxide from motor vehicle exhaust, intentional self-harm	Diagnosis	ICD-10-CM
T58.02XA	Toxic effect of carbon monoxide from motor vehicle exhaust, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T58.02XD	Toxic effect of carbon monoxide from motor vehicle exhaust, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T58.02XS	Toxic effect of carbon monoxide from motor vehicle exhaust, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T58.12	Toxic effect of carbon monoxide from utility gas, intentional self-harm	Diagnosis	ICD-10-CM
T58.12XA	Toxic effect of carbon monoxide from utility gas, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T58.12XD	Toxic effect of carbon monoxide from utility gas, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T58.12XS	Toxic effect of carbon monoxide from utility gas, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T58.2X2	Toxic effect of carbon monoxide from incomplete combustion of other domestic fuels, intentional self-harm	Diagnosis	ICD-10-CM
T58.2X2A	Toxic effect of carbon monoxide from incomplete combustion of other domestic fuels, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T58.2X2D	Toxic effect of carbon monoxide from incomplete combustion of other domestic fuels, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T58.2X2S	Toxic effect of carbon monoxide from incomplete combustion of other domestic fuels, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T58.8X2	Toxic effect of carbon monoxide from other source, intentional self-harm	Diagnosis	ICD-10-CM
T58.8X2A	Toxic effect of carbon monoxide from other source, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T58.8X2D	Toxic effect of carbon monoxide from other source, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T58.8X2S	Toxic effect of carbon monoxide from other source, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T58.92	Toxic effect of carbon monoxide from unspecified source, intentional self-harm	Diagnosis	ICD-10-CM
T58.92XA	Toxic effect of carbon monoxide from unspecified source, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T58.92XD	Toxic effect of carbon monoxide from unspecified source, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T58.92XS	Toxic effect of carbon monoxide from unspecified source, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.0X2	Toxic effect of nitrogen oxides, intentional self-harm	Diagnosis	ICD-10-CM
T59.0X2A	Toxic effect of nitrogen oxides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.0X2D	Toxic effect of nitrogen oxides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.0X2S	Toxic effect of nitrogen oxides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.1X2	Toxic effect of sulfur dioxide, intentional self-harm	Diagnosis	ICD-10-CM
T59.1X2A	Toxic effect of sulfur dioxide, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.1X2D	Toxic effect of sulfur dioxide, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.1X2S	Toxic effect of sulfur dioxide, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.2X2	Toxic effect of formaldehyde, intentional self-harm	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T59.2X2A	Toxic effect of formaldehyde, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.2X2D	Toxic effect of formaldehyde, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.2X2S	Toxic effect of formaldehyde, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.3X2	Toxic effect of lacrimogenic gas, intentional self-harm	Diagnosis	ICD-10-CM
T59.3X2A	Toxic effect of lacrimogenic gas, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.3X2D	Toxic effect of lacrimogenic gas, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.3X2S	Toxic effect of lacrimogenic gas, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.4X2	Toxic effect of chlorine gas, intentional self-harm	Diagnosis	ICD-10-CM
T59.4X2A	Toxic effect of chlorine gas, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.4X2D	Toxic effect of chlorine gas, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.4X2S	Toxic effect of chlorine gas, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.5X2	Toxic effect of fluorine gas and hydrogen fluoride, intentional self-harm	Diagnosis	ICD-10-CM
T59.5X2A	Toxic effect of fluorine gas and hydrogen fluoride, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.5X2D	Toxic effect of fluorine gas and hydrogen fluoride, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.5X2S	Toxic effect of fluorine gas and hydrogen fluoride, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.6X2	Toxic effect of hydrogen sulfide, intentional self-harm	Diagnosis	ICD-10-CM
T59.6X2A	Toxic effect of hydrogen sulfide, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.6X2D	Toxic effect of hydrogen sulfide, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.6X2S	Toxic effect of hydrogen sulfide, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.7X2	Toxic effect of carbon dioxide, intentional self-harm	Diagnosis	ICD-10-CM
T59.7X2A	Toxic effect of carbon dioxide, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.7X2D	Toxic effect of carbon dioxide, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.7X2S	Toxic effect of carbon dioxide, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.812	Toxic effect of smoke, intentional self-harm	Diagnosis	ICD-10-CM
T59.812A	Toxic effect of smoke, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.812D	Toxic effect of smoke, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.812S	Toxic effect of smoke, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.892	Toxic effect of other specified gases, fumes and vapors, intentional self-harm	Diagnosis	ICD-10-CM
T59.892A	Toxic effect of other specified gases, fumes and vapors, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.892D	Toxic effect of other specified gases, fumes and vapors, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.892S	Toxic effect of other specified gases, fumes and vapors, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T59.92	Toxic effect of unspecified gases, fumes and vapors, intentional self-harm	Diagnosis	ICD-10-CM
T59.92XA	Toxic effect of unspecified gases, fumes and vapors, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T59.92XD	Toxic effect of unspecified gases, fumes and vapors, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T59.92XS	Toxic effect of unspecified gases, fumes and vapors, intentional self-harm, sequela	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T60.0X2	Toxic effect of organophosphate and carbamate insecticides, intentional self-harm	Diagnosis	ICD-10-CM
T60.0X2A	Toxic effect of organophosphate and carbamate insecticides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T60.0X2D	Toxic effect of organophosphate and carbamate insecticides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T60.0X2S	Toxic effect of organophosphate and carbamate insecticides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T60.1X2	Toxic effect of halogenated insecticides, intentional self-harm	Diagnosis	ICD-10-CM
T60.1X2A	Toxic effect of halogenated insecticides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T60.1X2D	Toxic effect of halogenated insecticides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T60.1X2S	Toxic effect of halogenated insecticides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T60.2X2	Toxic effect of other insecticides, intentional self-harm	Diagnosis	ICD-10-CM
T60.2X2A	Toxic effect of other insecticides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T60.2X2D	Toxic effect of other insecticides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T60.2X2S	Toxic effect of other insecticides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T60.3X2	Toxic effect of herbicides and fungicides, intentional self-harm	Diagnosis	ICD-10-CM
T60.3X2A	Toxic effect of herbicides and fungicides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T60.3X2D	Toxic effect of herbicides and fungicides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T60.3X2S	Toxic effect of herbicides and fungicides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T60.4X2	Toxic effect of rodenticides, intentional self-harm	Diagnosis	ICD-10-CM
T60.4X2A	Toxic effect of rodenticides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T60.4X2D	Toxic effect of rodenticides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T60.4X2S	Toxic effect of rodenticides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T60.8X2	Toxic effect of other pesticides, intentional self-harm	Diagnosis	ICD-10-CM
T60.8X2A	Toxic effect of other pesticides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T60.8X2D	Toxic effect of other pesticides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T60.8X2S	Toxic effect of other pesticides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T60.92	Toxic effect of unspecified pesticide, intentional self-harm	Diagnosis	ICD-10-CM
T60.92XA	Toxic effect of unspecified pesticide, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T60.92XD	Toxic effect of unspecified pesticide, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T60.92XS	Toxic effect of unspecified pesticide, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T61.02	Ciguatera fish poisoning, intentional self-harm	Diagnosis	ICD-10-CM
T61.02XA	Ciguatera fish poisoning, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T61.02XD	Ciguatera fish poisoning, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T61.02XS	Ciguatera fish poisoning, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T61.12	Scombroid fish poisoning, intentional self-harm	Diagnosis	ICD-10-CM
T61.12XA	Scombroid fish poisoning, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T61.12XD	Scombroid fish poisoning, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T61.12XS	Scombroid fish poisoning, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T61.772	Other fish poisoning, intentional self-harm	Diagnosis	ICD-10-CM
T61.772A	Other fish poisoning, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T61.772D	Other fish poisoning, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T61.772S	Other fish poisoning, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T61.782	Other shellfish poisoning, intentional self-harm	Diagnosis	ICD-10-CM
T61.782A	Other shellfish poisoning, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T61.782D	Other shellfish poisoning, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T61.782S	Other shellfish poisoning, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T61.8X2	Toxic effect of other seafood, intentional self-harm	Diagnosis	ICD-10-CM
T61.8X2A	Toxic effect of other seafood, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T61.8X2D	Toxic effect of other seafood, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T61.8X2S	Toxic effect of other seafood, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T61.92	Toxic effect of unspecified seafood, intentional self-harm	Diagnosis	ICD-10-CM
T61.92XA	Toxic effect of unspecified seafood, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T61.92XD	Toxic effect of unspecified seafood, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T61.92XS	Toxic effect of unspecified seafood, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T62.0X2	Toxic effect of ingested mushrooms, intentional self-harm	Diagnosis	ICD-10-CM
T62.0X2A	Toxic effect of ingested mushrooms, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T62.0X2D	Toxic effect of ingested mushrooms, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T62.0X2S	Toxic effect of ingested mushrooms, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T62.1X2	Toxic effect of ingested berries, intentional self-harm	Diagnosis	ICD-10-CM
T62.1X2A	Toxic effect of ingested berries, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T62.1X2D	Toxic effect of ingested berries, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T62.1X2S	Toxic effect of ingested berries, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T62.2X2	Toxic effect of other ingested (parts of) plant(s), intentional self-harm	Diagnosis	ICD-10-CM
T62.2X2A	Toxic effect of other ingested (parts of) plant(s), intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T62.2X2D	Toxic effect of other ingested (parts of) plant(s), intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T62.2X2S	Toxic effect of other ingested (parts of) plant(s), intentional self-harm, sequela	Diagnosis	ICD-10-CM
T62.8X2	Toxic effect of other specified noxious substances eaten as food, intentional self-harm	Diagnosis	ICD-10-CM
T62.8X2A	Toxic effect of other specified noxious substances eaten as food, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T62.8X2D	Toxic effect of other specified noxious substances eaten as food, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T62.8X2S	Toxic effect of other specified noxious substances eaten as food, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T62.92	Toxic effect of unspecified noxious substance eaten as food, intentional self-harm	Diagnosis	ICD-10-CM
T62.92XA	Toxic effect of unspecified noxious substance eaten as food, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T62.92XD	Toxic effect of unspecified noxious substance eaten as food, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T62.92XS	Toxic effect of unspecified noxious substance eaten as food, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.002	Toxic effect of unspecified snake venom, intentional self-harm	Diagnosis	ICD-10-CM
T63.002A	Toxic effect of unspecified snake venom, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.002D	Toxic effect of unspecified snake venom, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.002S	Toxic effect of unspecified snake venom, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.012	Toxic effect of rattlesnake venom, intentional self-harm	Diagnosis	ICD-10-CM
T63.012A	Toxic effect of rattlesnake venom, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.012D	Toxic effect of rattlesnake venom, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.012S	Toxic effect of rattlesnake venom, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.022	Toxic effect of coral snake venom, intentional self-harm	Diagnosis	ICD-10-CM
T63.022A	Toxic effect of coral snake venom, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.022D	Toxic effect of coral snake venom, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.022S	Toxic effect of coral snake venom, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.032	Toxic effect of taipan venom, intentional self-harm	Diagnosis	ICD-10-CM
T63.032A	Toxic effect of taipan venom, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.032D	Toxic effect of taipan venom, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.032S	Toxic effect of taipan venom, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.042	Toxic effect of cobra venom, intentional self-harm	Diagnosis	ICD-10-CM
T63.042A	Toxic effect of cobra venom, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.042D	Toxic effect of cobra venom, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.042S	Toxic effect of cobra venom, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.062	Toxic effect of venom of other North and South American snake, intentional self-harm	Diagnosis	ICD-10-CM
T63.062A	Toxic effect of venom of other North and South American snake, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.062D	Toxic effect of venom of other North and South American snake, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.062S	Toxic effect of venom of other North and South American snake, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.072	Toxic effect of venom of other Australian snake, intentional self-harm	Diagnosis	ICD-10-CM
T63.072A	Toxic effect of venom of other Australian snake, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.072D	Toxic effect of venom of other Australian snake, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.072S	Toxic effect of venom of other Australian snake, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.082	Toxic effect of venom of other African and Asian snake, intentional self-harm	Diagnosis	ICD-10-CM
T63.082A	Toxic effect of venom of other African and Asian snake, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.082D	Toxic effect of venom of other African and Asian snake, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.082S	Toxic effect of venom of other African and Asian snake, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.092	Toxic effect of venom of other snake, intentional self-harm	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T63.092A	Toxic effect of venom of other snake, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.092D	Toxic effect of venom of other snake, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.092S	Toxic effect of venom of other snake, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.112	Toxic effect of venom of gila monster, intentional self-harm	Diagnosis	ICD-10-CM
T63.112A	Toxic effect of venom of gila monster, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.112D	Toxic effect of venom of gila monster, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.112S	Toxic effect of venom of gila monster, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.122	Toxic effect of venom of other venomous lizard, intentional self-harm	Diagnosis	ICD-10-CM
T63.122A	Toxic effect of venom of other venomous lizard, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.122D	Toxic effect of venom of other venomous lizard, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.122S	Toxic effect of venom of other venomous lizard, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.192	Toxic effect of venom of other reptiles, intentional self-harm	Diagnosis	ICD-10-CM
T63.192A	Toxic effect of venom of other reptiles, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.192D	Toxic effect of venom of other reptiles, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.192S	Toxic effect of venom of other reptiles, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.2X2	Toxic effect of venom of scorpion, intentional self-harm	Diagnosis	ICD-10-CM
T63.2X2A	Toxic effect of venom of scorpion, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.2X2D	Toxic effect of venom of scorpion, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.2X2S	Toxic effect of venom of scorpion, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.302	Toxic effect of unspecified spider venom, intentional self-harm	Diagnosis	ICD-10-CM
T63.302A	Toxic effect of unspecified spider venom, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.302D	Toxic effect of unspecified spider venom, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.302S	Toxic effect of unspecified spider venom, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.312	Toxic effect of venom of black widow spider, intentional self-harm	Diagnosis	ICD-10-CM
T63.312A	Toxic effect of venom of black widow spider, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.312D	Toxic effect of venom of black widow spider, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.312S	Toxic effect of venom of black widow spider, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.322	Toxic effect of venom of tarantula, intentional self-harm	Diagnosis	ICD-10-CM
T63.322A	Toxic effect of venom of tarantula, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.322D	Toxic effect of venom of tarantula, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.322S	Toxic effect of venom of tarantula, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.332	Toxic effect of venom of brown recluse spider, intentional self-harm	Diagnosis	ICD-10-CM
T63.332A	Toxic effect of venom of brown recluse spider, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.332D	Toxic effect of venom of brown recluse spider, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T63.332S	Toxic effect of venom of brown recluse spider, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.392	Toxic effect of venom of other spider, intentional self-harm	Diagnosis	ICD-10-CM
T63.392A	Toxic effect of venom of other spider, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.392D	Toxic effect of venom of other spider, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.392S	Toxic effect of venom of other spider, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.412	Toxic effect of venom of centipedes and venomous millipedes, intentional self-harm	Diagnosis	ICD-10-CM
T63.412A	Toxic effect of venom of centipedes and venomous millipedes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.412D	Toxic effect of venom of centipedes and venomous millipedes, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.412S	Toxic effect of venom of centipedes and venomous millipedes, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.422	Toxic effect of venom of ants, intentional self-harm	Diagnosis	ICD-10-CM
T63.422A	Toxic effect of venom of ants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.422D	Toxic effect of venom of ants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.422S	Toxic effect of venom of ants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.432	Toxic effect of venom of caterpillars, intentional self-harm	Diagnosis	ICD-10-CM
T63.432A	Toxic effect of venom of caterpillars, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.432D	Toxic effect of venom of caterpillars, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.432S	Toxic effect of venom of caterpillars, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.442	Toxic effect of venom of bees, intentional self-harm	Diagnosis	ICD-10-CM
T63.442A	Toxic effect of venom of bees, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.442D	Toxic effect of venom of bees, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.442S	Toxic effect of venom of bees, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.452	Toxic effect of venom of hornets, intentional self-harm	Diagnosis	ICD-10-CM
T63.452A	Toxic effect of venom of hornets, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.452D	Toxic effect of venom of hornets, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.452S	Toxic effect of venom of hornets, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.462	Toxic effect of venom of wasps, intentional self-harm	Diagnosis	ICD-10-CM
T63.462A	Toxic effect of venom of wasps, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.462D	Toxic effect of venom of wasps, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.462S	Toxic effect of venom of wasps, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.482	Toxic effect of venom of other arthropod, intentional self-harm	Diagnosis	ICD-10-CM
T63.482A	Toxic effect of venom of other arthropod, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.482D	Toxic effect of venom of other arthropod, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.482S	Toxic effect of venom of other arthropod, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.512	Toxic effect of contact with stingray, intentional self-harm	Diagnosis	ICD-10-CM
T63.512A	Toxic effect of contact with stingray, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.512D	Toxic effect of contact with stingray, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T63.512S	Toxic effect of contact with stingray, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.592	Toxic effect of contact with other venomous fish, intentional self-harm	Diagnosis	ICD-10-CM
T63.592A	Toxic effect of contact with other venomous fish, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.592D	Toxic effect of contact with other venomous fish, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.592S	Toxic effect of contact with other venomous fish, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.612	Toxic effect of contact with Portuguese Man-o-war, intentional self-harm	Diagnosis	ICD-10-CM
T63.612A	Toxic effect of contact with Portuguese Man-o-war, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.612D	Toxic effect of contact with Portuguese Man-o-war, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.612S	Toxic effect of contact with Portuguese Man-o-war, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.622	Toxic effect of contact with other jellyfish, intentional self-harm	Diagnosis	ICD-10-CM
T63.622A	Toxic effect of contact with other jellyfish, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.622D	Toxic effect of contact with other jellyfish, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.622S	Toxic effect of contact with other jellyfish, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.632	Toxic effect of contact with sea anemone, intentional self-harm	Diagnosis	ICD-10-CM
T63.632A	Toxic effect of contact with sea anemone, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.632D	Toxic effect of contact with sea anemone, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.632S	Toxic effect of contact with sea anemone, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.692	Toxic effect of contact with other venomous marine animals, intentional self-harm	Diagnosis	ICD-10-CM
T63.692A	Toxic effect of contact with other venomous marine animals, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.692D	Toxic effect of contact with other venomous marine animals, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.692S	Toxic effect of contact with other venomous marine animals, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.712	Toxic effect of contact with venomous marine plant, intentional self-harm	Diagnosis	ICD-10-CM
T63.712A	Toxic effect of contact with venomous marine plant, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.712D	Toxic effect of contact with venomous marine plant, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.712S	Toxic effect of contact with venomous marine plant, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.792	Toxic effect of contact with other venomous plant, intentional self-harm	Diagnosis	ICD-10-CM
T63.792A	Toxic effect of contact with other venomous plant, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T63.792D	Toxic effect of contact with other venomous plant, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.792S	Toxic effect of contact with other venomous plant, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.812	Toxic effect of contact with venomous frog, intentional self-harm	Diagnosis	ICD-10-CM
T63.812A	Toxic effect of contact with venomous frog, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.812D	Toxic effect of contact with venomous frog, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.812S	Toxic effect of contact with venomous frog, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.822	Toxic effect of contact with venomous toad, intentional self-harm	Diagnosis	ICD-10-CM
T63.822A	Toxic effect of contact with venomous toad, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.822D	Toxic effect of contact with venomous toad, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.822S	Toxic effect of contact with venomous toad, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.832	Toxic effect of contact with other venomous amphibian, intentional self-harm	Diagnosis	ICD-10-CM
T63.832A	Toxic effect of contact with other venomous amphibian, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.832D	Toxic effect of contact with other venomous amphibian, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.832S	Toxic effect of contact with other venomous amphibian, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.892	Toxic effect of contact with other venomous animals, intentional self-harm	Diagnosis	ICD-10-CM
T63.892A	Toxic effect of contact with other venomous animals, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.892D	Toxic effect of contact with other venomous animals, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.892S	Toxic effect of contact with other venomous animals, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T63.92	Toxic effect of contact with unspecified venomous animal, intentional self-harm	Diagnosis	ICD-10-CM
T63.92XA	Toxic effect of contact with unspecified venomous animal, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T63.92XD	Toxic effect of contact with unspecified venomous animal, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T63.92XS	Toxic effect of contact with unspecified venomous animal, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T64.02	Toxic effect of aflatoxin, intentional self-harm	Diagnosis	ICD-10-CM
T64.02XA	Toxic effect of aflatoxin, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T64.02XD	Toxic effect of aflatoxin, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T64.02XS	Toxic effect of aflatoxin, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T64.82	Toxic effect of other mycotoxin food contaminants, intentional self-harm	Diagnosis	ICD-10-CM
T64.82XA	Toxic effect of other mycotoxin food contaminants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T64.82XD	Toxic effect of other mycotoxin food contaminants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T64.82XS	Toxic effect of other mycotoxin food contaminants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.0X2	Toxic effect of cyanides, intentional self-harm	Diagnosis	ICD-10-CM
T65.0X2A	Toxic effect of cyanides, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.0X2D	Toxic effect of cyanides, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.0X2S	Toxic effect of cyanides, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.1X2	Toxic effect of strychnine and its salts, intentional self-harm	Diagnosis	ICD-10-CM
T65.1X2A	Toxic effect of strychnine and its salts, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.1X2D	Toxic effect of strychnine and its salts, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.1X2S	Toxic effect of strychnine and its salts, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.212	Toxic effect of chewing tobacco, intentional self-harm	Diagnosis	ICD-10-CM
T65.212A	Toxic effect of chewing tobacco, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.212D	Toxic effect of chewing tobacco, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.212S	Toxic effect of chewing tobacco, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.222	Toxic effect of tobacco cigarettes, intentional self-harm	Diagnosis	ICD-10-CM
T65.222A	Toxic effect of tobacco cigarettes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.222D	Toxic effect of tobacco cigarettes, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.222S	Toxic effect of tobacco cigarettes, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.292	Toxic effect of other tobacco and nicotine, intentional self-harm	Diagnosis	ICD-10-CM
T65.292A	Toxic effect of other tobacco and nicotine, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.292D	Toxic effect of other tobacco and nicotine, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.292S	Toxic effect of other tobacco and nicotine, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.3X2	Toxic effect of nitroderivatives and aminoderivatives of benzene and its homologues, intentional self-harm	Diagnosis	ICD-10-CM
T65.3X2A	Toxic effect of nitroderivatives and aminoderivatives of benzene and its homologues, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.3X2D	Toxic effect of nitroderivatives and aminoderivatives of benzene and its homologues, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.3X2S	Toxic effect of nitroderivatives and aminoderivatives of benzene and its homologues, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.4X2	Toxic effect of carbon disulfide, intentional self-harm	Diagnosis	ICD-10-CM
T65.4X2A	Toxic effect of carbon disulfide, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.4X2D	Toxic effect of carbon disulfide, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.4X2S	Toxic effect of carbon disulfide, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.5X2	Toxic effect of nitroglycerin and other nitric acids and esters, intentional self-harm	Diagnosis	ICD-10-CM
T65.5X2A	Toxic effect of nitroglycerin and other nitric acids and esters, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.5X2D	Toxic effect of nitroglycerin and other nitric acids and esters, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T65.5X2S	Toxic effect of nitroglycerin and other nitric acids and esters, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.6X2	Toxic effect of paints and dyes, not elsewhere classified, intentional self-harm	Diagnosis	ICD-10-CM
T65.6X2A	Toxic effect of paints and dyes, not elsewhere classified, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.6X2D	Toxic effect of paints and dyes, not elsewhere classified, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.6X2S	Toxic effect of paints and dyes, not elsewhere classified, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.812	Toxic effect of latex, intentional self-harm	Diagnosis	ICD-10-CM
T65.812A	Toxic effect of latex, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.812D	Toxic effect of latex, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.812S	Toxic effect of latex, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.822	Toxic effect of harmful algae and algae toxins, intentional self-harm	Diagnosis	ICD-10-CM
T65.822A	Toxic effect of harmful algae and algae toxins, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.822D	Toxic effect of harmful algae and algae toxins, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.822S	Toxic effect of harmful algae and algae toxins, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.832	Toxic effect of fiberglass, intentional self-harm	Diagnosis	ICD-10-CM
T65.832A	Toxic effect of fiberglass, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.832D	Toxic effect of fiberglass, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.832S	Toxic effect of fiberglass, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.892	Toxic effect of other specified substances, intentional self-harm	Diagnosis	ICD-10-CM
T65.892A	Toxic effect of other specified substances, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.892D	Toxic effect of other specified substances, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.892S	Toxic effect of other specified substances, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T65.92	Toxic effect of unspecified substance, intentional self-harm	Diagnosis	ICD-10-CM
T65.92XA	Toxic effect of unspecified substance, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.92XD	Toxic effect of unspecified substance, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T65.92XS	Toxic effect of unspecified substance, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T71.112	Asphyxiation due to smothering under pillow, intentional self-harm	Diagnosis	ICD-10-CM
T71.112A	Asphyxiation due to smothering under pillow, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T71.112D	Asphyxiation due to smothering under pillow, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T71.112S	Asphyxiation due to smothering under pillow, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T71.122	Asphyxiation due to plastic bag, intentional self-harm	Diagnosis	ICD-10-CM
T71.122A	Asphyxiation due to plastic bag, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T71.122D	Asphyxiation due to plastic bag, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T71.122S	Asphyxiation due to plastic bag, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T71.132	Asphyxiation due to being trapped in bed linens, intentional self-harm	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
T71.132A	Asphyxiation due to being trapped in bed linens, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T71.132D	Asphyxiation due to being trapped in bed linens, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T71.132S	Asphyxiation due to being trapped in bed linens, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T71.152	Asphyxiation due to smothering in furniture, intentional self-harm	Diagnosis	ICD-10-CM
T71.152A	Asphyxiation due to smothering in furniture, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T71.152D	Asphyxiation due to smothering in furniture, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T71.152S	Asphyxiation due to smothering in furniture, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T71.162	Asphyxiation due to hanging, intentional self-harm	Diagnosis	ICD-10-CM
T71.162A	Asphyxiation due to hanging, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T71.162D	Asphyxiation due to hanging, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T71.162S	Asphyxiation due to hanging, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T71.192	Asphyxiation due to mechanical threat to breathing due to other causes, intentional self-harm	Diagnosis	ICD-10-CM
T71.192A	Asphyxiation due to mechanical threat to breathing due to other causes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T71.192D	Asphyxiation due to mechanical threat to breathing due to other causes, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T71.192S	Asphyxiation due to mechanical threat to breathing due to other causes, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T71.222	Asphyxiation due to being trapped in a car trunk, intentional self-harm	Diagnosis	ICD-10-CM
T71.222A	Asphyxiation due to being trapped in a car trunk, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T71.222D	Asphyxiation due to being trapped in a car trunk, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T71.222S	Asphyxiation due to being trapped in a car trunk, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T71.232	Asphyxiation due to being trapped in a (discarded) refrigerator, intentional self-harm	Diagnosis	ICD-10-CM
T71.232A	Asphyxiation due to being trapped in a (discarded) refrigerator, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T71.232D	Asphyxiation due to being trapped in a (discarded) refrigerator, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T71.232S	Asphyxiation due to being trapped in a (discarded) refrigerator, intentional self-harm, sequela	Diagnosis	ICD-10-CM
X71	Intentional self-harm by drowning and submersion	Diagnosis	ICD-10-CM
X71.0	Intentional self-harm by drowning and submersion while in bathtub	Diagnosis	ICD-10-CM
X71.0XXA	Intentional self-harm by drowning and submersion while in bathtub, initial encounter	Diagnosis	ICD-10-CM
X71.0XXD	Intentional self-harm by drowning and submersion while in bathtub, subsequent encounter	Diagnosis	ICD-10-CM
X71.0XXS	Intentional self-harm by drowning and submersion while in bathtub, sequela	Diagnosis	ICD-10-CM
X71.1	Intentional self-harm by drowning and submersion while in swimming pool		ICD-10

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
X71.1XXA	Intentional self-harm by drowning and submersion while in swimming pool, initial encounter	Diagnosis	ICD-10-CM
X71.1XXD	Intentional self-harm by drowning and submersion while in swimming pool, subsequent encounter	Diagnosis	ICD-10-CM
X71.1XXS	Intentional self-harm by drowning and submersion while in swimming pool, sequela	Diagnosis	ICD-10-CM
X71.2	Intentional self-harm by drowning and submersion after jump into swimming pool	Diagnosis	ICD-10-CM
X71.2XXA	Intentional self-harm by drowning and submersion after jump into swimming pool, initial encounter	Diagnosis	ICD-10-CM
X71.2XXD	Intentional self-harm by drowning and submersion after jump into swimming pool, subsequent encounter	Diagnosis	ICD-10-CM
X71.2XXS	Intentional self-harm by drowning and submersion after jump into swimming pool, sequela	Diagnosis	ICD-10-CM
X71.3	Intentional self-harm by drowning and submersion in natural water	Diagnosis	ICD-10-CM
X71.3XXA	Intentional self-harm by drowning and submersion in natural water, initial encounter	Diagnosis	ICD-10-CM
X71.3XXD	Intentional self-harm by drowning and submersion in natural water, subsequent encounter	Diagnosis	ICD-10-CM
X71.3XXS	Intentional self-harm by drowning and submersion in natural water, sequela	Diagnosis	ICD-10-CM
X71.8	Other intentional self-harm by drowning and submersion	Diagnosis	ICD-10-CM
X71.8XXA	Other intentional self-harm by drowning and submersion, initial encounter	Diagnosis	ICD-10-CM
X71.8XXD	Other intentional self-harm by drowning and submersion, subsequent encounter	Diagnosis	ICD-10-CM
X71.8XXS	Other intentional self-harm by drowning and submersion, sequela	Diagnosis	ICD-10-CM
X71.9	Intentional self-harm by drowning and submersion, unspecified	Diagnosis	ICD-10-CM
X71.9XXA	Intentional self-harm by drowning and submersion, unspecified, initial encounter	Diagnosis	ICD-10-CM
X71.9XXD	Intentional self-harm by drowning and submersion, unspecified, subsequent encounter	Diagnosis	ICD-10-CM
X71.9XXS	Intentional self-harm by drowning and submersion, unspecified, sequela	Diagnosis	ICD-10-CM
X72	Intentional self-harm by handgun discharge	Diagnosis	ICD-10-CM
X72.XXXA	Intentional self-harm by handgun discharge, initial encounter	Diagnosis	ICD-10-CM
X72.XXXD	Intentional self-harm by handgun discharge, subsequent encounter	Diagnosis	ICD-10-CM
X72.XXXS	Intentional self-harm by handgun discharge, sequela	Diagnosis	ICD-10-CM
X73	Intentional self-harm by rifle, shotgun and larger firearm discharge	Diagnosis	ICD-10-CM
X73.0	Intentional self-harm by shotgun discharge	Diagnosis	ICD-10-CM
X73.0XXA	Intentional self-harm by shotgun discharge, initial encounter	Diagnosis	ICD-10-CM
X73.0XXD	Intentional self-harm by shotgun discharge, subsequent encounter	Diagnosis	ICD-10-CM
X73.0XXS	Intentional self-harm by shotgun discharge, sequela	Diagnosis	ICD-10-CM
X73.1	Intentional self-harm by hunting rifle discharge	Diagnosis	ICD-10-CM
X73.1XXA	Intentional self-harm by hunting rifle discharge, initial encounter	Diagnosis	ICD-10-CM
X73.1XXD	Intentional self-harm by hunting rifle discharge, subsequent encounter	Diagnosis	ICD-10-CM
X73.1XXS	Intentional self-harm by hunting rifle discharge, sequela	Diagnosis	ICD-10-CM
X73.2	Intentional self-harm by machine gun discharge	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
X73.2XXA	Intentional self-harm by machine gun discharge, initial encounter	Diagnosis	ICD-10-CM
X73.2XXD	Intentional self-harm by machine gun discharge, subsequent encounter	Diagnosis	ICD-10-CM
X73.2XXS	Intentional self-harm by machine gun discharge, sequela	Diagnosis	ICD-10-CM
X73.8	Intentional self-harm by other larger firearm discharge	Diagnosis	ICD-10-CM
X73.8XXA	Intentional self-harm by other larger firearm discharge, initial encounter	Diagnosis	ICD-10-CM
X73.8XXD	Intentional self-harm by other larger firearm discharge, subsequent encounter	Diagnosis	ICD-10-CM
X73.8XXS	Intentional self-harm by other larger firearm discharge, sequela	Diagnosis	ICD-10-CM
X73.9	Intentional self-harm by unspecified larger firearm discharge	Diagnosis	ICD-10-CM
X73.9XXA	Intentional self-harm by unspecified larger firearm discharge, initial encounter	Diagnosis	ICD-10-CM
X73.9XXD	Intentional self-harm by unspecified larger firearm discharge, subsequent encounter	Diagnosis	ICD-10-CM
X73.9XXS	Intentional self-harm by unspecified larger firearm discharge, sequela	Diagnosis	ICD-10-CM
X74	Intentional self-harm by other and unspecified firearm and gun discharge	Diagnosis	ICD-10-CM
X74.0	Intentional self-harm by gas, air or spring-operated guns	Diagnosis	ICD-10-CM
X74.01	Intentional self-harm by airgun	Diagnosis	ICD-10-CM
X74.01XA	Intentional self-harm by airgun, initial encounter	Diagnosis	ICD-10-CM
X74.01XD	Intentional self-harm by airgun, subsequent encounter	Diagnosis	ICD-10-CM
X74.01XS	Intentional self-harm by airgun, sequela	Diagnosis	ICD-10-CM
X74.02	Intentional self-harm by paintball gun	Diagnosis	ICD-10-CM
X74.02XA	Intentional self-harm by paintball gun, initial encounter	Diagnosis	ICD-10-CM
X74.02XD	Intentional self-harm by paintball gun, subsequent encounter	Diagnosis	ICD-10-CM
X74.02XS	Intentional self-harm by paintball gun, sequela	Diagnosis	ICD-10-CM
X74.09	Intentional self-harm by other gas, air or spring-operated gun	Diagnosis	ICD-10-CM
X74.09XA	Intentional self-harm by other gas, air or spring-operated gun, initial encounter	Diagnosis	ICD-10-CM
X74.09XD	Intentional self-harm by other gas, air or spring-operated gun, subsequent encounter	Diagnosis	ICD-10-CM
X74.09XS	Intentional self-harm by other gas, air or spring-operated gun, sequela	Diagnosis	ICD-10-CM
X74.8	Intentional self-harm by other firearm discharge	Diagnosis	ICD-10-CM
X74.8XXA	Intentional self-harm by other firearm discharge, initial encounter	Diagnosis	ICD-10-CM
X74.8XXD	Intentional self-harm by other firearm discharge, subsequent encounter	Diagnosis	ICD-10-CM
X74.8XXS	Intentional self-harm by other firearm discharge, sequela	Diagnosis	ICD-10-CM
X74.9	Intentional self-harm by unspecified firearm discharge	Diagnosis	ICD-10-CM
X74.9XXA	Intentional self-harm by unspecified firearm discharge, initial encounter	Diagnosis	ICD-10-CM
X74.9XXD	Intentional self-harm by unspecified firearm discharge, subsequent encounter	Diagnosis	ICD-10-CM
X74.9XXS	Intentional self-harm by unspecified firearm discharge, sequela	Diagnosis	ICD-10-CM
X75	Intentional self-harm by explosive material	Diagnosis	ICD-10-CM
X75.XXXA	Intentional self-harm by explosive material, initial encounter	Diagnosis	ICD-10-CM
X75.XXXD	Intentional self-harm by explosive material, subsequent encounter	Diagnosis	ICD-10-CM
X75.XXXS	Intentional self-harm by explosive material, sequela	Diagnosis	ICD-10-CM
X76	Intentional self-harm by smoke, fire and flames	Diagnosis	ICD-10-CM
X76.XXXA	Intentional self-harm by smoke, fire and flames, initial encounter	Diagnosis	ICD-10-CM
X76.XXXD	Intentional self-harm by smoke, fire and flames, subsequent encounter	Diagnosis	ICD-10-CM
X76.XXXS	Intentional self-harm by smoke, fire and flames, sequela	Diagnosis	ICD-10-CM
X77	Intentional self-harm by steam, hot vapors and hot objects	Diagnosis	ICD-10-CM
X77.0	Intentional self-harm by steam or hot vapors	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
X77.0XXA	Intentional self-harm by steam or hot vapors, initial encounter	Diagnosis	ICD-10-CM
X77.0XXD	Intentional self-harm by steam or hot vapors, subsequent encounter	Diagnosis	ICD-10-CM
X77.0XXS	Intentional self-harm by steam or hot vapors, sequela	Diagnosis	ICD-10-CM
X77.1	Intentional self-harm by hot tap water	Diagnosis	ICD-10-CM
X77.1XXA	Intentional self-harm by hot tap water, initial encounter	Diagnosis	ICD-10-CM
X77.1XXD	Intentional self-harm by hot tap water, subsequent encounter	Diagnosis	ICD-10-CM
X77.1XXS	Intentional self-harm by hot tap water, sequela	Diagnosis	ICD-10-CM
X77.2	Intentional self-harm by other hot fluids	Diagnosis	ICD-10-CM
X77.2XXA	Intentional self-harm by other hot fluids, initial encounter	Diagnosis	ICD-10-CM
X77.2XXD	Intentional self-harm by other hot fluids, subsequent encounter	Diagnosis	ICD-10-CM
X77.2XXS	Intentional self-harm by other hot fluids, sequela	Diagnosis	ICD-10-CM
X77.3	Intentional self-harm by hot household appliances	Diagnosis	ICD-10-CM
X77.3XXA	Intentional self-harm by hot household appliances, initial encounter	Diagnosis	ICD-10-CM
X77.3XXD	Intentional self-harm by hot household appliances, subsequent encounter	Diagnosis	ICD-10-CM
X77.3XXS	Intentional self-harm by hot household appliances, sequela	Diagnosis	ICD-10-CM
X77.8	Intentional self-harm by other hot objects	Diagnosis	ICD-10-CM
X77.8XXA	Intentional self-harm by other hot objects, initial encounter	Diagnosis	ICD-10-CM
X77.8XXD	Intentional self-harm by other hot objects, subsequent encounter	Diagnosis	ICD-10-CM
X77.8XXS	Intentional self-harm by other hot objects, sequela	Diagnosis	ICD-10-CM
X77.9	Intentional self-harm by unspecified hot objects	Diagnosis	ICD-10-CM
X77.9XXA	Intentional self-harm by unspecified hot objects, initial encounter	Diagnosis	ICD-10-CM
X77.9XXD	Intentional self-harm by unspecified hot objects, subsequent encounter	Diagnosis	ICD-10-CM
X77.9XXS	Intentional self-harm by unspecified hot objects, sequela	Diagnosis	ICD-10-CM
X78	Intentional self-harm by sharp object	Diagnosis	ICD-10-CM
X78.0	Intentional self-harm by sharp glass	Diagnosis	ICD-10-CM
X78.0XXA	Intentional self-harm by sharp glass, initial encounter	Diagnosis	ICD-10-CM
X78.0XXD	Intentional self-harm by sharp glass, subsequent encounter	Diagnosis	ICD-10-CM
X78.0XXS	Intentional self-harm by sharp glass, sequela	Diagnosis	ICD-10-CM
X78.1	Intentional self-harm by knife	Diagnosis	ICD-10-CM
X78.1XXA	Intentional self-harm by knife, initial encounter	Diagnosis	ICD-10-CM
X78.1XXD	Intentional self-harm by knife, subsequent encounter	Diagnosis	ICD-10-CM
X78.1XXS	Intentional self-harm by knife, sequela	Diagnosis	ICD-10-CM
X78.2	Intentional self-harm by sword or dagger	Diagnosis	ICD-10-CM
X78.2XXA	Intentional self-harm by sword or dagger, initial encounter	Diagnosis	ICD-10-CM
X78.2XXD	Intentional self-harm by sword or dagger, subsequent encounter	Diagnosis	ICD-10-CM
X78.2XXS	Intentional self-harm by sword or dagger, sequela	Diagnosis	ICD-10-CM
X78.8	Intentional self-harm by other sharp object	Diagnosis	ICD-10-CM
X78.8XXA	Intentional self-harm by other sharp object, initial encounter	Diagnosis	ICD-10-CM
X78.8XXD	Intentional self-harm by other sharp object, subsequent encounter	Diagnosis	ICD-10-CM
X78.8XXS	Intentional self-harm by other sharp object, sequela	Diagnosis	ICD-10-CM
X78.9	Intentional self-harm by unspecified sharp object	Diagnosis	ICD-10-CM
X78.9XXA	Intentional self-harm by unspecified sharp object, initial encounter	Diagnosis	ICD-10-CM
X78.9XXD	Intentional self-harm by unspecified sharp object, subsequent encounter	Diagnosis	ICD-10-CM
X78.9XXS	Intentional self-harm by unspecified sharp object, sequela	Diagnosis	ICD-10-CM
X79	Intentional self-harm by blunt object	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
X79.XXXA	Intentional self-harm by blunt object, initial encounter	Diagnosis	ICD-10-CM
X79.XXXD	Intentional self-harm by blunt object, subsequent encounter	Diagnosis	ICD-10-CM
X79.XXXS	Intentional self-harm by blunt object, sequela	Diagnosis	ICD-10-CM
X80	Intentional self-harm by jumping from a high place	Diagnosis	ICD-10-CM
X80.XXXA	Intentional self-harm by jumping from a high place, initial encounter	Diagnosis	ICD-10-CM
X80.XXXD	Intentional self-harm by jumping from a high place, subsequent encounter	Diagnosis	ICD-10-CM
X80.XXXS	Intentional self-harm by jumping from a high place, sequela	Diagnosis	ICD-10-CM
X81	Intentional self-harm by jumping or lying in front of moving object	Diagnosis	ICD-10-CM
X81.0	Intentional self-harm by jumping or lying in front of motor vehicle	Diagnosis	ICD-10-CM
X81.0XXA	Intentional self-harm by jumping or lying in front of motor vehicle, initial encounter	Diagnosis	ICD-10-CM
X81.0XXD	Intentional self-harm by jumping or lying in front of motor vehicle, subsequent encounter	Diagnosis	ICD-10-CM
X81.0XXS	Intentional self-harm by jumping or lying in front of motor vehicle, sequela	Diagnosis	ICD-10-CM
X81.1	Intentional self-harm by jumping or lying in front of (subway) train	Diagnosis	ICD-10-CM
X81.1XXA	Intentional self-harm by jumping or lying in front of (subway) train, initial encounter	Diagnosis	ICD-10-CM
X81.1XXD	Intentional self-harm by jumping or lying in front of (subway) train, subsequent encounter	Diagnosis	ICD-10-CM
X81.1XXS	Intentional self-harm by jumping or lying in front of (subway) train, sequela	Diagnosis	ICD-10-CM
X81.8	Intentional self-harm by jumping or lying in front of other moving object	Diagnosis	ICD-10-CM
X81.8XXA	Intentional self-harm by jumping or lying in front of other moving object, initial encounter	Diagnosis	ICD-10-CM
X81.8XXD	Intentional self-harm by jumping or lying in front of other moving object, subsequent encounter	Diagnosis	ICD-10-CM
X81.8XXS	Intentional self-harm by jumping or lying in front of other moving object, sequela	Diagnosis	ICD-10-CM
X82	Intentional self-harm by crashing of motor vehicle	Diagnosis	ICD-10-CM
X82.0	Intentional collision of motor vehicle with other motor vehicle	Diagnosis	ICD-10-CM
X82.0XXA	Intentional collision of motor vehicle with other motor vehicle, initial encounter	Diagnosis	ICD-10-CM
X82.0XXD	Intentional collision of motor vehicle with other motor vehicle, subsequent encounter	Diagnosis	ICD-10-CM
X82.0XXS	Intentional collision of motor vehicle with other motor vehicle, sequela	Diagnosis	ICD-10-CM
X82.1	Intentional collision of motor vehicle with train	Diagnosis	ICD-10-CM
X82.1XXA	Intentional collision of motor vehicle with train, initial encounter	Diagnosis	ICD-10-CM
X82.1XXD	Intentional collision of motor vehicle with train, subsequent encounter	Diagnosis	ICD-10-CM
X82.1XXS	Intentional collision of motor vehicle with train, sequela	Diagnosis	ICD-10-CM
X82.2	Intentional collision of motor vehicle with tree	Diagnosis	ICD-10-CM
X82.2XXA	Intentional collision of motor vehicle with tree, initial encounter	Diagnosis	ICD-10-CM
X82.2XXD	Intentional collision of motor vehicle with tree, subsequent encounter	Diagnosis	ICD-10-CM
X82.2XXS	Intentional collision of motor vehicle with tree, sequela	Diagnosis	ICD-10-CM
X82.8	Other intentional self-harm by crashing of motor vehicle	Diagnosis	ICD-10-CM
X82.8XXA	Other intentional self-harm by crashing of motor vehicle, initial encounter	Diagnosis	ICD-10-CM
X82.8XXD	Other intentional self-harm by crashing of motor vehicle, subsequent encounter	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
X82.8XXS	Other intentional self-harm by crashing of motor vehicle, sequela	Diagnosis	ICD-10-CM
X83	Intentional self-harm by other specified means	Diagnosis	ICD-10-CM
X83.0	Intentional self-harm by crashing of aircraft	Diagnosis	ICD-10-CM
X83.0XXA	Intentional self-harm by crashing of aircraft, initial encounter	Diagnosis	ICD-10-CM
X83.0XXD	Intentional self-harm by crashing of aircraft, subsequent encounter	Diagnosis	ICD-10-CM
X83.0XXS	Intentional self-harm by crashing of aircraft, sequela	Diagnosis	ICD-10-CM
X83.1	Intentional self-harm by electrocution	Diagnosis	ICD-10-CM
X83.1XXA	Intentional self-harm by electrocution, initial encounter	Diagnosis	ICD-10-CM
X83.1XXD	Intentional self-harm by electrocution, subsequent encounter	Diagnosis	ICD-10-CM
X83.1XXS	Intentional self-harm by electrocution, sequela	Diagnosis	ICD-10-CM
X83.2	Intentional self-harm by exposure to extremes of cold	Diagnosis	ICD-10-CM
X83.2XXA	Intentional self-harm by exposure to extremes of cold, initial encounter	Diagnosis	ICD-10-CM
X83.2XXD	Intentional self-harm by exposure to extremes of cold, subsequent encounter	Diagnosis	ICD-10-CM
X83.2XXS	Intentional self-harm by exposure to extremes of cold, sequela	Diagnosis	ICD-10-CM
X83.8	Intentional self-harm by other specified means	Diagnosis	ICD-10-CM
X83.8XXA	Intentional self-harm by other specified means, initial encounter	Diagnosis	ICD-10-CM
X83.8XXD	Intentional self-harm by other specified means, subsequent encounter	Diagnosis	ICD-10-CM
X83.8XXS	Intentional self-harm by other specified means, sequela	Diagnosis	ICD-10-CM
	GI Outcome Comorbidity Exclusion		
C18.0	Malignant neoplasm of cecum	Diagnosis	ICD-10-CM
C18.1	Malignant neoplasm of appendix	Diagnosis	ICD-10-CM
C18.2	Malignant neoplasm of ascending colon	Diagnosis	ICD-10-CM
C18.3	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-10-CM
C18.4	Malignant neoplasm of transverse colon	Diagnosis	ICD-10-CM
C18.5	Malignant neoplasm of splenic flexure	Diagnosis	ICD-10-CM
C18.6	Malignant neoplasm of descending colon	Diagnosis	ICD-10-CM
C18.7	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-10-CM
C18.8	Malignant neoplasm of overlapping sites of colon	Diagnosis	ICD-10-CM
C18.9	Malignant neoplasm of colon, unspecified	Diagnosis	ICD-10-CM
C19	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-10-CM
C20	Malignant neoplasm of rectum	Diagnosis	ICD-10-CM
C21.8	Malignant neoplasm of overlapping sites of rectum, anus and anal canal	Diagnosis	ICD-10-CM
C45.1	Mesothelioma of peritoneum	Diagnosis	ICD-10-CM
C48.0	Malignant neoplasm of retroperitoneum	Diagnosis	ICD-10-CM
C48.1	Malignant neoplasm of specified parts of peritoneum	Diagnosis	ICD-10-CM
C48.2	Malignant neoplasm of peritoneum, unspecified	Diagnosis	ICD-10-CM
C48.8	Malignant neoplasm of overlapping sites of retroperitoneum and peritoneum	Diagnosis	ICD-10-CM
C53.8	Malignant neoplasm of overlapping sites of cervix uteri	Diagnosis	ICD-10-CM
C53.9	Malignant neoplasm of cervix uteri, unspecified	Diagnosis	ICD-10-CM
C54.0	Malignant neoplasm of isthmus uteri	Diagnosis	ICD-10-CM
C54.1	Malignant neoplasm of endometrium	Diagnosis	ICD-10-CM
C54.2	Malignant neoplasm of myometrium	Diagnosis	ICD-10-CM
C54.3	Malignant neoplasm of fundus uteri	Diagnosis	ICD-10-CM
C54.8	Malignant neoplasm of overlapping sites of corpus uteri	Diagnosis	ICD-10-CM
C54.9	Malignant neoplasm of corpus uteri, unspecified	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
C55	Malignant neoplasm of uterus, part unspecified	Diagnosis	ICD-10-CM
C56.1	Malignant neoplasm of right ovary	Diagnosis	ICD-10-CM
C56.2	Malignant neoplasm of left ovary	Diagnosis	ICD-10-CM
C56.9	Malignant neoplasm of unspecified ovary	Diagnosis	ICD-10-CM
C57.00	Malignant neoplasm of unspecified fallopian tube	Diagnosis	ICD-10-CM
C57.01	Malignant neoplasm of right fallopian tube	Diagnosis	ICD-10-CM
C57.02	Malignant neoplasm of left fallopian tube	Diagnosis	ICD-10-CM
C57.10	Malignant neoplasm of unspecified broad ligament	Diagnosis	ICD-10-CM
C57.11	Malignant neoplasm of right broad ligament	Diagnosis	ICD-10-CM
C57.12	Malignant neoplasm of left broad ligament	Diagnosis	ICD-10-CM
C57.20	Malignant neoplasm of unspecified round ligament	Diagnosis	ICD-10-CM
C57.21	Malignant neoplasm of right round ligament	Diagnosis	ICD-10-CM
C57.22	Malignant neoplasm of left round ligament	Diagnosis	ICD-10-CM
C57.3	Malignant neoplasm of parametrium	Diagnosis	ICD-10-CM
C57.4	Malignant neoplasm of uterine adnexa, unspecified	Diagnosis	ICD-10-CM
C58	Malignant neoplasm of placenta	Diagnosis	ICD-10-CM
C61	Malignant neoplasm of prostate	Diagnosis	ICD-10-CM
C62.00	Malignant neoplasm of unspecified undescended testis	Diagnosis	ICD-10-CM
C62.01	Malignant neoplasm of undescended right testis	Diagnosis	ICD-10-CM
C62.02	Malignant neoplasm of undescended left testis	Diagnosis	ICD-10-CM
C62.10	Malignant neoplasm of unspecified descended testis	Diagnosis	ICD-10-CM
C62.11	Malignant neoplasm of descended right testis	Diagnosis	ICD-10-CM
C62.12	Malignant neoplasm of descended left testis	Diagnosis	ICD-10-CM
C62.90	Malignant neoplasm of unspecified testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C62.91	Malignant neoplasm of right testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C62.92	Malignant neoplasm of left testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C63.00	Malignant neoplasm of unspecified epididymis	Diagnosis	ICD-10-CM
C63.01	Malignant neoplasm of right epididymis	Diagnosis	ICD-10-CM
C63.02	Malignant neoplasm of left epididymis	Diagnosis	ICD-10-CM
C63.10	Malignant neoplasm of unspecified spermatic cord	Diagnosis	ICD-10-CM
C63.11	Malignant neoplasm of right spermatic cord	Diagnosis	ICD-10-CM
C63.12	Malignant neoplasm of left spermatic cord	Diagnosis	ICD-10-CM
C67.0	Malignant neoplasm of trigone of bladder	Diagnosis	ICD-10-CM
C67.1	Malignant neoplasm of dome of bladder	Diagnosis	ICD-10-CM
C67.2	Malignant neoplasm of lateral wall of bladder	Diagnosis	ICD-10-CM
C67.3	Malignant neoplasm of anterior wall of bladder	Diagnosis	ICD-10-CM
C67.4	Malignant neoplasm of posterior wall of bladder	Diagnosis	ICD-10-CM
C67.5	Malignant neoplasm of bladder neck	Diagnosis	ICD-10-CM
C67.9	Malignant neoplasm of bladder, unspecified	Diagnosis	ICD-10-CM
C78.5	Secondary malignant neoplasm of large intestine and rectum	Diagnosis	ICD-10-CM
C78.6	Secondary malignant neoplasm of retroperitoneum and peritoneum	Diagnosis	ICD-10-CM
D37.4	Neoplasm of uncertain behavior of colon	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
D37.5	Neoplasm of uncertain behavior of rectum	Diagnosis	ICD-10-CM
D49.4	Neoplasm of unspecified behavior of bladder	Diagnosis	ICD-10-CM
K50.00	Crohn's disease of small intestine without complications	Diagnosis	ICD-10-CM
K50.011	Crohn's disease of small intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.012	Crohn's disease of small intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.013	Crohn's disease of small intestine with fistula	Diagnosis	ICD-10-CM
K50.014	Crohn's disease of small intestine with abscess	Diagnosis	ICD-10-CM
K50.018	Crohn's disease of small intestine with other complication	Diagnosis	ICD-10-CM
K50.019	Crohn's disease of small intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.10	Crohn's disease of large intestine without complications	Diagnosis	ICD-10-CM
K50.111	Crohn's disease of large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.112	Crohn's disease of large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.113	Crohn's disease of large intestine with fistula	Diagnosis	ICD-10-CM
K50.114	Crohn's disease of large intestine with abscess	Diagnosis	ICD-10-CM
K50.118	Crohn's disease of large intestine with other complication	Diagnosis	ICD-10-CM
K50.119	Crohn's disease of large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.80	Crohn's disease of both small and large intestine without complications	Diagnosis	ICD-10-CM
K50.811	Crohn's disease of both small and large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.812	Crohn's disease of both small and large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.813	Crohn's disease of both small and large intestine with fistula	Diagnosis	ICD-10-CM
K50.814	Crohn's disease of both small and large intestine with abscess	Diagnosis	ICD-10-CM
K50.818	Crohn's disease of both small and large intestine with other complication	Diagnosis	ICD-10-CM
K50.819	Crohn's disease of both small and large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.90	Crohn's disease, unspecified, without complications	Diagnosis	ICD-10-CM
K50.911	Crohn's disease, unspecified, with rectal bleeding	Diagnosis	ICD-10-CM
K50.912	Crohn's disease, unspecified, with intestinal obstruction	Diagnosis	ICD-10-CM
K50.913	Crohn's disease, unspecified, with fistula	Diagnosis	ICD-10-CM
K50.914	Crohn's disease, unspecified, with abscess	Diagnosis	ICD-10-CM
K50.918	Crohn's disease, unspecified, with other complication	Diagnosis	ICD-10-CM
K50.919	Crohn's disease, unspecified, with unspecified complications	Diagnosis	ICD-10-CM
K51.00	Ulcerative (chronic) pancolitis without complications	Diagnosis	ICD-10-CM
K51.011	Ulcerative (chronic) pancolitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.012	Ulcerative (chronic) pancolitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.013	Ulcerative (chronic) pancolitis with fistula	Diagnosis	ICD-10-CM
K51.014	Ulcerative (chronic) pancolitis with abscess	Diagnosis	ICD-10-CM
K51.018	Ulcerative (chronic) pancolitis with other complication	Diagnosis	ICD-10-CM
K51.019	Ulcerative (chronic) pancolitis with unspecified complications	Diagnosis	ICD-10-CM
K51.20	Ulcerative (chronic) proctitis without complications	Diagnosis	ICD-10-CM
K51.211	Ulcerative (chronic) proctitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.212	Ulcerative (chronic) proctitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.213	Ulcerative (chronic) proctitis with fistula	Diagnosis	ICD-10-CM
K51.214	Ulcerative (chronic) proctitis with abscess	Diagnosis	ICD-10-CM
K51.218	Ulcerative (chronic) proctitis with other complication	Diagnosis	ICD-10-CM
K51.219	Ulcerative (chronic) proctitis with unspecified complications	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
K51.30	Ulcerative (chronic) rectosigmoiditis without complications	Diagnosis	ICD-10-CM
K51.311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding	Diagnosis	ICD-10-CM
K51.312	Ulcerative (chronic) rectosigmoiditis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.313	Ulcerative (chronic) rectosigmoiditis with fistula	Diagnosis	ICD-10-CM
K51.314	Ulcerative (chronic) rectosigmoiditis with abscess	Diagnosis	ICD-10-CM
K51.318	Ulcerative (chronic) rectosigmoiditis with other complication	Diagnosis	ICD-10-CM
K51.319	Ulcerative (chronic) rectosigmoiditis with unspecified complications	Diagnosis	ICD-10-CM
K51.40	Inflammatory polyps of colon without complications	Diagnosis	ICD-10-CM
K51.411	Inflammatory polyps of colon with rectal bleeding	Diagnosis	ICD-10-CM
K51.412	Inflammatory polyps of colon with intestinal obstruction	Diagnosis	ICD-10-CM
K51.413	Inflammatory polyps of colon with fistula	Diagnosis	ICD-10-CM
K51.414	Inflammatory polyps of colon with abscess	Diagnosis	ICD-10-CM
K51.418	Inflammatory polyps of colon with other complication	Diagnosis	ICD-10-CM
K51.419	Inflammatory polyps of colon with unspecified complications	Diagnosis	ICD-10-CM
K51.50	Left sided colitis without complications	Diagnosis	ICD-10-CM
K51.511	Left sided colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.512	Left sided colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.513	Left sided colitis with fistula	Diagnosis	ICD-10-CM
K51.514	Left sided colitis with abscess	Diagnosis	ICD-10-CM
K51.518	Left sided colitis with other complication	Diagnosis	ICD-10-CM
K51.519	Left sided colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.80	Other ulcerative colitis without complications	Diagnosis	ICD-10-CM
K51.811	Other ulcerative colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.812	Other ulcerative colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.813	Other ulcerative colitis with fistula	Diagnosis	ICD-10-CM
K51.814	Other ulcerative colitis with abscess	Diagnosis	ICD-10-CM
K51.818	Other ulcerative colitis with other complication	Diagnosis	ICD-10-CM
K51.819	Other ulcerative colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.90	Ulcerative colitis, unspecified, without complications	Diagnosis	ICD-10-CM
K51.911	Ulcerative colitis, unspecified with rectal bleeding	Diagnosis	ICD-10-CM
K51.912	Ulcerative colitis, unspecified with intestinal obstruction	Diagnosis	ICD-10-CM
K51.913	Ulcerative colitis, unspecified with fistula	Diagnosis	ICD-10-CM
K51.914	Ulcerative colitis, unspecified with abscess	Diagnosis	ICD-10-CM
K51.918	Ulcerative colitis, unspecified with other complication	Diagnosis	ICD-10-CM
K51.919	Ulcerative colitis, unspecified with unspecified complications	Diagnosis	ICD-10-CM
K59.31	Toxic megacolon	Diagnosis	ICD-10-CM
K66.0	Peritoneal adhesions (postprocedural) (postinfection)	Diagnosis	ICD-10-CM
N73.6	Female pelvic peritoneal adhesions (postinfective)	Diagnosis	ICD-10-CM
N99.4	Postprocedural pelvic peritoneal adhesions	Diagnosis	ICD-10-CM
	GI Outcome: Epigastric/Upper Quadrant Pain Exclusion		
R10.11	Right upper quadrant pain	Diagnosis	ICD-10-CM
R10.12	Left upper quadrant pain	Diagnosis	ICD-10-CM
R10.13	Epigastric pain	Diagnosis	ICD-10-CM
	GI Outcome: Intestinal Obstruction Exclusion		
K56.6	Other and unspecified intestinal obstruction	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
K56.60	Unspecified intestinal obstruction	Diagnosis	ICD-10-CM
K56.600	Partial intestinal obstruction, unspecified as to cause	Diagnosis	ICD-10-CM
K56.601	Complete intestinal obstruction, unspecified as to cause	Diagnosis	ICD-10-CM
K56.609	Unspecified intestinal obstruction, unspecified as to partial versus complete obstruction	Diagnosis	ICD-10-CM
K56.69	Other intestinal obstruction	Diagnosis	ICD-10-CM
K56.690	Other partial intestinal obstruction	Diagnosis	ICD-10-CM
K56.691	Other complete intestinal obstruction	Diagnosis	ICD-10-CM
K56.699	Other intestinal obstruction unspecified as to partial versus complete obstruction	Diagnosis	ICD-10-CM
GI Outcome: Abdominal Surgery Exclusion			
0016075	Bypass Cerebral Ventricle to Intestine with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0016076	Bypass Cerebral Ventricle to Peritoneal Cavity with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
00160J5	Bypass Cerebral Ventricle to Intestine with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
00160J6	Bypass Cerebral Ventricle to Peritoneal Cavity with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
00160K5	Bypass Cerebral Ventricle to Intestine with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
00160K6	Bypass Cerebral Ventricle to Peritoneal Cavity with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0016375	Bypass Cerebral Ventricle to Intestine with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0016376	Bypass Cerebral Ventricle to Peritoneal Cavity with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
00163J5	Bypass Cerebral Ventricle to Intestine with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
00163J6	Bypass Cerebral Ventricle to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
00163K5	Bypass Cerebral Ventricle to Intestine with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
00163K6	Bypass Cerebral Ventricle to Peritoneal Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0016475	Bypass Cerebral Ventricle to Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0016476	Bypass Cerebral Ventricle to Peritoneal Cavity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
00164J5	Bypass Cerebral Ventricle to Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
00164J6	Bypass Cerebral Ventricle to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
00164K5	Bypass Cerebral Ventricle to Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
00164K6	Bypass Cerebral Ventricle to Peritoneal Cavity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
001U076	Bypass Spinal Canal to Peritoneal Cavity with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
001U0J6	Bypass Spinal Canal to Peritoneal Cavity with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
001U0K6	Bypass Spinal Canal to Peritoneal Cavity with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
001U376	Bypass Spinal Canal to Peritoneal Cavity with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
001U3J6	Bypass Spinal Canal to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
001U3K6	Bypass Spinal Canal to Peritoneal Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
001U476	Bypass Spinal Canal to Peritoneal Cavity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
001U4J6	Bypass Spinal Canal to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
001U4K6	Bypass Spinal Canal to Peritoneal Cavity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
015M0ZZ	Destruction of Abdominal Sympathetic Nerve, Open Approach	Procedure	ICD-10-PCS
015M3ZZ	Destruction of Abdominal Sympathetic Nerve, Percutaneous Approach	Procedure	ICD-10-PCS
015M4ZZ	Destruction of Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
018M0ZZ	Division of Abdominal Sympathetic Nerve, Open Approach	Procedure	ICD-10-PCS
018M3ZZ	Division of Abdominal Sympathetic Nerve, Percutaneous Approach	Procedure	ICD-10-PCS
018M4ZZ	Division of Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
019M00Z	Drainage of Abdominal Sympathetic Nerve with Drainage Device, Open Approach	Procedure	ICD-10-PCS
019M0ZZ	Drainage of Abdominal Sympathetic Nerve, Open Approach	Procedure	ICD-10-PCS
019M40Z	Drainage of Abdominal Sympathetic Nerve with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
019M4ZZ	Drainage of Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
01BM0ZZ	Excision of Abdominal Sympathetic Nerve, Open Approach	Procedure	ICD-10-PCS
01BM3ZZ	Excision of Abdominal Sympathetic Nerve, Percutaneous Approach	Procedure	ICD-10-PCS
01BM4ZZ	Excision of Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
01CM0ZZ	Extirpation of Matter from Abdominal Sympathetic Nerve, Open Approach	Procedure	ICD-10-PCS
01CM3ZZ	Extirpation of Matter from Abdominal Sympathetic Nerve, Percutaneous Approach	Procedure	ICD-10-PCS
01CM4ZZ	Extirpation of Matter from Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
01DM0ZZ	Extraction of Abdominal Sympathetic Nerve, Open Approach	Procedure	ICD-10-PCS
01DM3ZZ	Extraction of Abdominal Sympathetic Nerve, Percutaneous Approach	Procedure	ICD-10-PCS
01DM4ZZ	Extraction of Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
01NM0ZZ	Release Abdominal Sympathetic Nerve, Open Approach	Procedure	ICD-10-PCS
01NM3ZZ	Release Abdominal Sympathetic Nerve, Percutaneous Approach	Procedure	ICD-10-PCS
01NM4ZZ	Release Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
01QM0ZZ	Repair Abdominal Sympathetic Nerve, Open Approach	Procedure	ICD-10-PCS
01QM3ZZ	Repair Abdominal Sympathetic Nerve, Percutaneous Approach	Procedure	ICD-10-PCS
01QM4ZZ	Repair Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021008F	Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021009F	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02100AF	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100JF	Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100KF	Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02100ZF	Bypass Coronary Artery, One Artery from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
021048F	Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021049F	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104AF	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104JF	Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104KF	Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104ZF	Bypass Coronary Artery, One Artery from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021108F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021109F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02110AF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110JF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110KF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110ZF	Bypass Coronary Artery, Two Arteries from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
021148F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021149F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
02114AF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114JF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114KF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114ZF	Bypass Coronary Artery, Two Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021208F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021209F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02120AF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02120JF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120KF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02120ZF	Bypass Coronary Artery, Three Arteries from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
021248F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021249F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124AF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124JF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124KF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124ZF	Bypass Coronary Artery, Three Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021308F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021309F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02130AF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02130JF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02130KF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02130ZF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
021348F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
021349F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134AF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134JF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134KF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134ZF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021K0ZF	Bypass Right Ventricle to Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
021K4ZF	Bypass Right Ventricle to Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L0ZF	Bypass Left Ventricle to Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
021L4ZF	Bypass Left Ventricle to Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021W08F	Bypass Thoracic Aorta, Descending to Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021W09F	Bypass Thoracic Aorta, Descending to Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021W0AF	Bypass Thoracic Aorta, Descending to Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
021W0JF	Bypass Thoracic Aorta, Descending to Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
021W0KF	Bypass Thoracic Aorta, Descending to Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02700E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02703E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02704E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02710E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02713E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02714E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02720E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02723E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02724E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02730E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
02733E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02734E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
031509T	Bypass Right Axillary Artery to Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
03150AT	Bypass Right Axillary Artery to Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
03150JT	Bypass Right Axillary Artery to Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
03150KT	Bypass Right Axillary Artery to Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
03150ZT	Bypass Right Axillary Artery to Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
031609T	Bypass Left Axillary Artery to Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
03160AT	Bypass Left Axillary Artery to Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
03160JT	Bypass Left Axillary Artery to Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
03160KT	Bypass Left Axillary Artery to Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
03160ZT	Bypass Left Axillary Artery to Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
03700E6	Dilation of Right Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
03703E6	Dilation of Right Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
03704E6	Dilation of Right Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
03710E6	Dilation of Left Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
03713E6	Dilation of Left Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
03714E6	Dilation of Left Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
03720E6	Dilation of Innominate Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
03723E6	Dilation of Innominate Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
03724E6	Dilation of Innominate Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
03730E6	Dilation of Right Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
03733E6	Dilation of Right Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
03734E6	Dilation of Right Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
03740E6	Dilation of Left Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
03743E6	Dilation of Left Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
03744E6	Dilation of Left Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
03750E6	Dilation of Right Axillary Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
03753E6	Dilation of Right Axillary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
03754E6	Dilation of Right Axillary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
03760E6	Dilation of Left Axillary Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
03763E6	Dilation of Left Axillary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
03764E6	Dilation of Left Axillary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
03770E6	Dilation of Right Brachial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
03773E6	Dilation of Right Brachial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
03774E6	Dilation of Right Brachial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
03780E6	Dilation of Left Brachial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
03783E6	Dilation of Left Brachial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
03784E6	Dilation of Left Brachial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
03790E6	Dilation of Right Ulnar Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
03793E6	Dilation of Right Ulnar Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
03794E6	Dilation of Right Ulnar Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0410090	Bypass Abdominal Aorta to Abdominal Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0410091	Bypass Abdominal Aorta to Celiac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0410092	Bypass Abdominal Aorta to Mesenteric Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0410093	Bypass Abdominal Aorta to Right Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0410094	Bypass Abdominal Aorta to Left Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0410095	Bypass Abdominal Aorta to Bilateral Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0410096	Bypass Abdominal Aorta to Right Common Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0410097	Bypass Abdominal Aorta to Left Common Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0410098	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0410099	Bypass Abdominal Aorta to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041009B	Bypass Abdominal Aorta to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041009C	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041009D	Bypass Abdominal Aorta to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041009F	Bypass Abdominal Aorta to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041009G	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041009H	Bypass Abdominal Aorta to Right Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041009J	Bypass Abdominal Aorta to Left Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041009K	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041009Q	Bypass Abdominal Aorta to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041009R	Bypass Abdominal Aorta to Lower Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
04100A0	Bypass Abdominal Aorta to Abdominal Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100A1	Bypass Abdominal Aorta to Celiac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100A2	Bypass Abdominal Aorta to Mesenteric Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100A3	Bypass Abdominal Aorta to Right Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100A4	Bypass Abdominal Aorta to Left Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04100A5	Bypass Abdominal Aorta to Bilateral Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100A6	Bypass Abdominal Aorta to Right Common Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100A7	Bypass Abdominal Aorta to Left Common Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100A8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100A9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100AB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100AC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100AD	Bypass Abdominal Aorta to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100AF	Bypass Abdominal Aorta to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100AG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100AH	Bypass Abdominal Aorta to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100AJ	Bypass Abdominal Aorta to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100AK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100AQ	Bypass Abdominal Aorta to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100AR	Bypass Abdominal Aorta to Lower Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04100J0	Bypass Abdominal Aorta to Abdominal Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100J1	Bypass Abdominal Aorta to Celiac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100J2	Bypass Abdominal Aorta to Mesenteric Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100J3	Bypass Abdominal Aorta to Right Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100J4	Bypass Abdominal Aorta to Left Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100J5	Bypass Abdominal Aorta to Bilateral Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100J6	Bypass Abdominal Aorta to Right Common Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04100J7	Bypass Abdominal Aorta to Left Common Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100J8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100J9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100JB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100JC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100JD	Bypass Abdominal Aorta to Right External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100JF	Bypass Abdominal Aorta to Left External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100JG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100JH	Bypass Abdominal Aorta to Right Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100JJ	Bypass Abdominal Aorta to Left Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100JK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100JQ	Bypass Abdominal Aorta to Lower Extremity Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100JR	Bypass Abdominal Aorta to Lower Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04100K0	Bypass Abdominal Aorta to Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100K1	Bypass Abdominal Aorta to Celiac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100K2	Bypass Abdominal Aorta to Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100K3	Bypass Abdominal Aorta to Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100K4	Bypass Abdominal Aorta to Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100K5	Bypass Abdominal Aorta to Bilateral Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100K6	Bypass Abdominal Aorta to Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100K7	Bypass Abdominal Aorta to Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100K8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04100K9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100KB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100KC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100KD	Bypass Abdominal Aorta to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100KF	Bypass Abdominal Aorta to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100KG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100KH	Bypass Abdominal Aorta to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100KJ	Bypass Abdominal Aorta to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100KK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100KQ	Bypass Abdominal Aorta to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100KR	Bypass Abdominal Aorta to Lower Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04100Z0	Bypass Abdominal Aorta to Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04100Z1	Bypass Abdominal Aorta to Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04100Z2	Bypass Abdominal Aorta to Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04100Z3	Bypass Abdominal Aorta to Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04100Z4	Bypass Abdominal Aorta to Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04100Z5	Bypass Abdominal Aorta to Bilateral Renal Artery, Open Approach	Procedure	ICD-10-PCS
04100Z6	Bypass Abdominal Aorta to Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04100Z7	Bypass Abdominal Aorta to Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04100Z8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
04100Z9	Bypass Abdominal Aorta to Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04100ZB	Bypass Abdominal Aorta to Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04100ZC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
04100ZD	Bypass Abdominal Aorta to Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04100ZF	Bypass Abdominal Aorta to Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04100ZG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
04100ZH	Bypass Abdominal Aorta to Right Femoral Artery, Open Approach	Procedure	ICD-10-PCS
04100ZJ	Bypass Abdominal Aorta to Left Femoral Artery, Open Approach	Procedure	ICD-10-PCS
04100ZK	Bypass Abdominal Aorta to Bilateral Femoral Arteries, Open Approach	Procedure	ICD-10-PCS
04100ZQ	Bypass Abdominal Aorta to Lower Extremity Artery, Open Approach	Procedure	ICD-10-PCS
04100ZR	Bypass Abdominal Aorta to Lower Artery, Open Approach	Procedure	ICD-10-PCS
0410490	Bypass Abdominal Aorta to Abdominal Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0410491	Bypass Abdominal Aorta to Celiac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0410492	Bypass Abdominal Aorta to Mesenteric Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0410493	Bypass Abdominal Aorta to Right Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0410494	Bypass Abdominal Aorta to Left Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0410495	Bypass Abdominal Aorta to Bilateral Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0410496	Bypass Abdominal Aorta to Right Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0410497	Bypass Abdominal Aorta to Left Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0410498	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0410499	Bypass Abdominal Aorta to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041049B	Bypass Abdominal Aorta to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041049C	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041049D	Bypass Abdominal Aorta to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041049F	Bypass Abdominal Aorta to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041049G	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041049H	Bypass Abdominal Aorta to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041049J	Bypass Abdominal Aorta to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041049K	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041049Q	Bypass Abdominal Aorta to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041049R	Bypass Abdominal Aorta to Lower Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104A0	Bypass Abdominal Aorta to Abdominal Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104A1	Bypass Abdominal Aorta to Celiac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104A2	Bypass Abdominal Aorta to Mesenteric Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04104A3	Bypass Abdominal Aorta to Right Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104A4	Bypass Abdominal Aorta to Left Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104A5	Bypass Abdominal Aorta to Bilateral Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104A6	Bypass Abdominal Aorta to Right Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104A7	Bypass Abdominal Aorta to Left Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104A8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104A9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104AB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104AC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104AD	Bypass Abdominal Aorta to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104AF	Bypass Abdominal Aorta to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104AG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104AH	Bypass Abdominal Aorta to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104AJ	Bypass Abdominal Aorta to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104AK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104AQ	Bypass Abdominal Aorta to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104AR	Bypass Abdominal Aorta to Lower Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104J0	Bypass Abdominal Aorta to Abdominal Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104J1	Bypass Abdominal Aorta to Celiac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104J2	Bypass Abdominal Aorta to Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104J3	Bypass Abdominal Aorta to Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104J4	Bypass Abdominal Aorta to Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04104J5	Bypass Abdominal Aorta to Bilateral Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104J6	Bypass Abdominal Aorta to Right Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104J7	Bypass Abdominal Aorta to Left Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104J8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104J9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104JB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104JC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104JD	Bypass Abdominal Aorta to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104JF	Bypass Abdominal Aorta to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104JG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104JH	Bypass Abdominal Aorta to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104JJ	Bypass Abdominal Aorta to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104JK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104JQ	Bypass Abdominal Aorta to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104JR	Bypass Abdominal Aorta to Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104K0	Bypass Abdominal Aorta to Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104K1	Bypass Abdominal Aorta to Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104K2	Bypass Abdominal Aorta to Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104K3	Bypass Abdominal Aorta to Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104K4	Bypass Abdominal Aorta to Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104K5	Bypass Abdominal Aorta to Bilateral Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104K6	Bypass Abdominal Aorta to Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04104K7	Bypass Abdominal Aorta to Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104K8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104K9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104KB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104KC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104KD	Bypass Abdominal Aorta to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104KF	Bypass Abdominal Aorta to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104KG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104KH	Bypass Abdominal Aorta to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104KJ	Bypass Abdominal Aorta to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104KK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104KQ	Bypass Abdominal Aorta to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104KR	Bypass Abdominal Aorta to Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104Z0	Bypass Abdominal Aorta to Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104Z1	Bypass Abdominal Aorta to Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104Z2	Bypass Abdominal Aorta to Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104Z3	Bypass Abdominal Aorta to Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104Z4	Bypass Abdominal Aorta to Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104Z5	Bypass Abdominal Aorta to Bilateral Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104Z6	Bypass Abdominal Aorta to Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104Z7	Bypass Abdominal Aorta to Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104Z8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104Z9	Bypass Abdominal Aorta to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04104ZB	Bypass Abdominal Aorta to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104ZC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104ZD	Bypass Abdominal Aorta to Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104ZF	Bypass Abdominal Aorta to Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104ZG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104ZH	Bypass Abdominal Aorta to Right Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104ZJ	Bypass Abdominal Aorta to Left Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104ZK	Bypass Abdominal Aorta to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104ZQ	Bypass Abdominal Aorta to Lower Extremity Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04104ZR	Bypass Abdominal Aorta to Lower Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0413093	Bypass Hepatic Artery to Right Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0413094	Bypass Hepatic Artery to Left Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0413095	Bypass Hepatic Artery to Bilateral Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041309R	Bypass Hepatic Artery to Lower Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
04130A3	Bypass Hepatic Artery to Right Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04130A4	Bypass Hepatic Artery to Left Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04130A5	Bypass Hepatic Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04130AR	Bypass Hepatic Artery to Lower Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04130J3	Bypass Hepatic Artery to Right Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04130J4	Bypass Hepatic Artery to Left Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04130J5	Bypass Hepatic Artery to Bilateral Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04130JR	Bypass Hepatic Artery to Lower Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04130K3	Bypass Hepatic Artery to Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04130K4	Bypass Hepatic Artery to Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04130K5	Bypass Hepatic Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04130KR	Bypass Hepatic Artery to Lower Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04130Z3	Bypass Hepatic Artery to Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04130Z4	Bypass Hepatic Artery to Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04130Z5	Bypass Hepatic Artery to Bilateral Renal Artery, Open Approach	Procedure	ICD-10-PCS
04130ZR	Bypass Hepatic Artery to Lower Artery, Open Approach	Procedure	ICD-10-PCS
0413493	Bypass Hepatic Artery to Right Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0413494	Bypass Hepatic Artery to Left Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0413495	Bypass Hepatic Artery to Bilateral Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041349R	Bypass Hepatic Artery to Lower Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134A3	Bypass Hepatic Artery to Right Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134A4	Bypass Hepatic Artery to Left Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134A5	Bypass Hepatic Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134AR	Bypass Hepatic Artery to Lower Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134J3	Bypass Hepatic Artery to Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134J4	Bypass Hepatic Artery to Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134J5	Bypass Hepatic Artery to Bilateral Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134JR	Bypass Hepatic Artery to Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134K3	Bypass Hepatic Artery to Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134K4	Bypass Hepatic Artery to Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134K5	Bypass Hepatic Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134KR	Bypass Hepatic Artery to Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134Z3	Bypass Hepatic Artery to Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134Z4	Bypass Hepatic Artery to Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04134Z5	Bypass Hepatic Artery to Bilateral Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04134ZR	Bypass Hepatic Artery to Lower Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0414093	Bypass Splenic Artery to Right Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0414094	Bypass Splenic Artery to Left Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0414095	Bypass Splenic Artery to Bilateral Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041409R	Bypass Splenic Artery to Lower Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
04140A3	Bypass Splenic Artery to Right Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04140A4	Bypass Splenic Artery to Left Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04140A5	Bypass Splenic Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04140AR	Bypass Splenic Artery to Lower Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
04140J3	Bypass Splenic Artery to Right Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04140J4	Bypass Splenic Artery to Left Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04140J5	Bypass Splenic Artery to Bilateral Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04140JR	Bypass Splenic Artery to Lower Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04140K3	Bypass Splenic Artery to Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04140K4	Bypass Splenic Artery to Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04140K5	Bypass Splenic Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04140KR	Bypass Splenic Artery to Lower Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04140Z3	Bypass Splenic Artery to Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04140Z4	Bypass Splenic Artery to Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04140Z5	Bypass Splenic Artery to Bilateral Renal Artery, Open Approach	Procedure	ICD-10-PCS
04140ZR	Bypass Splenic Artery to Lower Artery, Open Approach	Procedure	ICD-10-PCS
0414493	Bypass Splenic Artery to Right Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0414494	Bypass Splenic Artery to Left Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0414495	Bypass Splenic Artery to Bilateral Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041449R	Bypass Splenic Artery to Lower Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144A3	Bypass Splenic Artery to Right Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144A4	Bypass Splenic Artery to Left Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144A5	Bypass Splenic Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144AR	Bypass Splenic Artery to Lower Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144J3	Bypass Splenic Artery to Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144J4	Bypass Splenic Artery to Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144J5	Bypass Splenic Artery to Bilateral Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144JR	Bypass Splenic Artery to Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144K3	Bypass Splenic Artery to Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144K4	Bypass Splenic Artery to Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144K5	Bypass Splenic Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144KR	Bypass Splenic Artery to Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144Z3	Bypass Splenic Artery to Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144Z4	Bypass Splenic Artery to Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144Z5	Bypass Splenic Artery to Bilateral Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04144ZR	Bypass Splenic Artery to Lower Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C090	Bypass Right Common Iliac Artery to Abdominal Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C091	Bypass Right Common Iliac Artery to Celiac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C092	Bypass Right Common Iliac Artery to Mesenteric Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C093	Bypass Right Common Iliac Artery to Right Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C094	Bypass Right Common Iliac Artery to Left Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C095	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C096	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041C097	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C098	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C099	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C09B	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C09C	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C09D	Bypass Right Common Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C09F	Bypass Right Common Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C09G	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C09H	Bypass Right Common Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C09J	Bypass Right Common Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C09K	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C09Q	Bypass Right Common Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C09R	Bypass Right Common Iliac Artery to Lower Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041C0A0	Bypass Right Common Iliac Artery to Abdominal Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0A1	Bypass Right Common Iliac Artery to Celiac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0A2	Bypass Right Common Iliac Artery to Mesenteric Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0A3	Bypass Right Common Iliac Artery to Right Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0A4	Bypass Right Common Iliac Artery to Left Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0A5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0A6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0A7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0A8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041C0A9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0AB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0AC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0AD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0AF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0AG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0AH	Bypass Right Common Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0AJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0AK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0AQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0AR	Bypass Right Common Iliac Artery to Lower Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041C0J0	Bypass Right Common Iliac Artery to Abdominal Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0J1	Bypass Right Common Iliac Artery to Celiac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0J2	Bypass Right Common Iliac Artery to Mesenteric Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0J3	Bypass Right Common Iliac Artery to Right Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0J4	Bypass Right Common Iliac Artery to Left Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0J5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0J6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0J7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0J8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0J9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0JB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041C0JC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0JD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0JF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0JG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0JH	Bypass Right Common Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0JJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0JK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0JQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0JR	Bypass Right Common Iliac Artery to Lower Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041C0K0	Bypass Right Common Iliac Artery to Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0K1	Bypass Right Common Iliac Artery to Celiac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0K2	Bypass Right Common Iliac Artery to Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0K3	Bypass Right Common Iliac Artery to Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0K4	Bypass Right Common Iliac Artery to Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0K5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0K6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0K7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0K8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0K9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0KB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0KC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0KD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041C0KF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0KG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0KH	Bypass Right Common Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0KJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0KK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0KQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0KR	Bypass Right Common Iliac Artery to Lower Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041C0Z0	Bypass Right Common Iliac Artery to Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
041C0Z1	Bypass Right Common Iliac Artery to Celiac Artery, Open Approach	Procedure	ICD-10-PCS
041C0Z2	Bypass Right Common Iliac Artery to Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
041C0Z3	Bypass Right Common Iliac Artery to Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
041C0Z4	Bypass Right Common Iliac Artery to Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
041C0Z5	Bypass Right Common Iliac Artery to Bilateral Renal Artery, Open Approach	Procedure	ICD-10-PCS
041C0Z6	Bypass Right Common Iliac Artery to Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041C0Z7	Bypass Right Common Iliac Artery to Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041C0Z8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041C0Z9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041C0ZB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041C0ZC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041C0ZD	Bypass Right Common Iliac Artery to Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041C0ZF	Bypass Right Common Iliac Artery to Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041C0ZG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041C0ZH	Bypass Right Common Iliac Artery to Right Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041C0ZJ	Bypass Right Common Iliac Artery to Left Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041C0ZK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries, Open Approach	Procedure	ICD-10-PCS
041C0ZQ	Bypass Right Common Iliac Artery to Lower Extremity Artery, Open Approach	Procedure	ICD-10-PCS
041C0ZR	Bypass Right Common Iliac Artery to Lower Artery, Open Approach	Procedure	ICD-10-PCS
041C490	Bypass Right Common Iliac Artery to Abdominal Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C491	Bypass Right Common Iliac Artery to Celiac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C492	Bypass Right Common Iliac Artery to Mesenteric Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C493	Bypass Right Common Iliac Artery to Right Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041C494	Bypass Right Common Iliac Artery to Left Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C495	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C496	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C497	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C498	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C499	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C49B	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C49C	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C49D	Bypass Right Common Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C49F	Bypass Right Common Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C49G	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C49H	Bypass Right Common Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C49J	Bypass Right Common Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C49K	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C49Q	Bypass Right Common Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C49R	Bypass Right Common Iliac Artery to Lower Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4A0	Bypass Right Common Iliac Artery to Abdominal Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4A1	Bypass Right Common Iliac Artery to Celiac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4A2	Bypass Right Common Iliac Artery to Mesenteric Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4A3	Bypass Right Common Iliac Artery to Right Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4A4	Bypass Right Common Iliac Artery to Left Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4A5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041C4A6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4A7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4A8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4A9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4AB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4AC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4AD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4AF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4AG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4AH	Bypass Right Common Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4AJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4AK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4AQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4AR	Bypass Right Common Iliac Artery to Lower Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4J0	Bypass Right Common Iliac Artery to Abdominal Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4J1	Bypass Right Common Iliac Artery to Celiac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4J2	Bypass Right Common Iliac Artery to Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4J3	Bypass Right Common Iliac Artery to Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4J4	Bypass Right Common Iliac Artery to Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4J5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4J6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4J7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041C4J8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4J9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4JB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4JC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4JD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4JF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4JG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4JH	Bypass Right Common Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4JJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4JK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4JQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4JR	Bypass Right Common Iliac Artery to Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4K0	Bypass Right Common Iliac Artery to Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4K1	Bypass Right Common Iliac Artery to Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4K2	Bypass Right Common Iliac Artery to Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4K3	Bypass Right Common Iliac Artery to Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4K4	Bypass Right Common Iliac Artery to Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4K5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4K6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4K7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4K8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4K9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041C4KB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4KC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4KD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4KF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4KG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4KH	Bypass Right Common Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4KJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4KK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4KQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4KR	Bypass Right Common Iliac Artery to Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4Z0	Bypass Right Common Iliac Artery to Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4Z1	Bypass Right Common Iliac Artery to Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4Z2	Bypass Right Common Iliac Artery to Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4Z3	Bypass Right Common Iliac Artery to Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4Z4	Bypass Right Common Iliac Artery to Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4Z5	Bypass Right Common Iliac Artery to Bilateral Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4Z6	Bypass Right Common Iliac Artery to Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4Z7	Bypass Right Common Iliac Artery to Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4Z8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4Z9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4ZB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4ZC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041C4ZD	Bypass Right Common Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4ZF	Bypass Right Common Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4ZG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4ZH	Bypass Right Common Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4ZJ	Bypass Right Common Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4ZK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4ZQ	Bypass Right Common Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041C4ZR	Bypass Right Common Iliac Artery to Lower Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D090	Bypass Left Common Iliac Artery to Abdominal Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D091	Bypass Left Common Iliac Artery to Celiac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D092	Bypass Left Common Iliac Artery to Mesenteric Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D093	Bypass Left Common Iliac Artery to Right Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D094	Bypass Left Common Iliac Artery to Left Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D095	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D096	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D097	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D098	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D099	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D09B	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D09C	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D09D	Bypass Left Common Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D09F	Bypass Left Common Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041D09G	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D09H	Bypass Left Common Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D09J	Bypass Left Common Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D09K	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D09Q	Bypass Left Common Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D09R	Bypass Left Common Iliac Artery to Lower Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041D0A0	Bypass Left Common Iliac Artery to Abdominal Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0A1	Bypass Left Common Iliac Artery to Celiac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0A2	Bypass Left Common Iliac Artery to Mesenteric Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0A3	Bypass Left Common Iliac Artery to Right Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0A4	Bypass Left Common Iliac Artery to Left Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0A5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0A6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0A7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0A8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0A9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0AB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0AC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0AD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0AF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0AG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0AH	Bypass Left Common Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041D0AJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0AK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0AQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0AR	Bypass Left Common Iliac Artery to Lower Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041D0J0	Bypass Left Common Iliac Artery to Abdominal Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0J1	Bypass Left Common Iliac Artery to Celiac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0J2	Bypass Left Common Iliac Artery to Mesenteric Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0J3	Bypass Left Common Iliac Artery to Right Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0J4	Bypass Left Common Iliac Artery to Left Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0J5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0J6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0J7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0J8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0J9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0JB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0JC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0JD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0JF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0JG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0JH	Bypass Left Common Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0JJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0JK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041D0JQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0JR	Bypass Left Common Iliac Artery to Lower Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041D0K0	Bypass Left Common Iliac Artery to Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0K1	Bypass Left Common Iliac Artery to Celiac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0K2	Bypass Left Common Iliac Artery to Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0K3	Bypass Left Common Iliac Artery to Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0K4	Bypass Left Common Iliac Artery to Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0K5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0K6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0K7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0K8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0K9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0KB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0KC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0KD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0KF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0KG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0KH	Bypass Left Common Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0KJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0KK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0KQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0KR	Bypass Left Common Iliac Artery to Lower Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041D0Z0	Bypass Left Common Iliac Artery to Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041D0Z1	Bypass Left Common Iliac Artery to Celiac Artery, Open Approach	Procedure	ICD-10-PCS
041D0Z2	Bypass Left Common Iliac Artery to Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
041D0Z3	Bypass Left Common Iliac Artery to Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
041D0Z4	Bypass Left Common Iliac Artery to Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
041D0Z5	Bypass Left Common Iliac Artery to Bilateral Renal Artery, Open Approach	Procedure	ICD-10-PCS
041D0Z6	Bypass Left Common Iliac Artery to Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041D0Z7	Bypass Left Common Iliac Artery to Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041D0Z8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041D0Z9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041D0ZB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041D0ZC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041D0ZD	Bypass Left Common Iliac Artery to Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041D0ZF	Bypass Left Common Iliac Artery to Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041D0ZG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041D0ZH	Bypass Left Common Iliac Artery to Right Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041D0ZJ	Bypass Left Common Iliac Artery to Left Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041D0ZK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries, Open Approach	Procedure	ICD-10-PCS
041D0ZQ	Bypass Left Common Iliac Artery to Lower Extremity Artery, Open Approach	Procedure	ICD-10-PCS
041D0ZR	Bypass Left Common Iliac Artery to Lower Artery, Open Approach	Procedure	ICD-10-PCS
041D490	Bypass Left Common Iliac Artery to Abdominal Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D491	Bypass Left Common Iliac Artery to Celiac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D492	Bypass Left Common Iliac Artery to Mesenteric Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D493	Bypass Left Common Iliac Artery to Right Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D494	Bypass Left Common Iliac Artery to Left Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D495	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D496	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D497	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D498	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D499	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D49B	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041D49C	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D49D	Bypass Left Common Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D49F	Bypass Left Common Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D49G	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D49H	Bypass Left Common Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D49J	Bypass Left Common Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D49K	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D49Q	Bypass Left Common Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D49R	Bypass Left Common Iliac Artery to Lower Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4A0	Bypass Left Common Iliac Artery to Abdominal Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4A1	Bypass Left Common Iliac Artery to Celiac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4A2	Bypass Left Common Iliac Artery to Mesenteric Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4A3	Bypass Left Common Iliac Artery to Right Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4A4	Bypass Left Common Iliac Artery to Left Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4A5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4A6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4A7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4A8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4A9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4AB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4AC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4AD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041D4AF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4AG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4AH	Bypass Left Common Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4AJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4AK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4AQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4AR	Bypass Left Common Iliac Artery to Lower Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4J0	Bypass Left Common Iliac Artery to Abdominal Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4J1	Bypass Left Common Iliac Artery to Celiac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4J2	Bypass Left Common Iliac Artery to Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4J3	Bypass Left Common Iliac Artery to Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4J4	Bypass Left Common Iliac Artery to Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4J5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4J6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4J7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4J8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4J9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4JB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4JC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4JD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4JF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4JG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041D4JH	Bypass Left Common Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4JJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4JK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4JQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4JR	Bypass Left Common Iliac Artery to Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4K0	Bypass Left Common Iliac Artery to Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4K1	Bypass Left Common Iliac Artery to Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4K2	Bypass Left Common Iliac Artery to Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4K3	Bypass Left Common Iliac Artery to Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4K4	Bypass Left Common Iliac Artery to Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4K5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4K6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4K7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4K8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4K9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4KB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4KC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4KD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4KF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4KG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4KH	Bypass Left Common Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4KJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041D4KK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4KQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4KR	Bypass Left Common Iliac Artery to Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4Z0	Bypass Left Common Iliac Artery to Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4Z1	Bypass Left Common Iliac Artery to Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4Z2	Bypass Left Common Iliac Artery to Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4Z3	Bypass Left Common Iliac Artery to Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4Z4	Bypass Left Common Iliac Artery to Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4Z5	Bypass Left Common Iliac Artery to Bilateral Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4Z6	Bypass Left Common Iliac Artery to Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4Z7	Bypass Left Common Iliac Artery to Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4Z8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4Z9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4ZB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4ZC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4ZD	Bypass Left Common Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4ZF	Bypass Left Common Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4ZG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4ZH	Bypass Left Common Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4ZJ	Bypass Left Common Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4ZK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041D4ZQ	Bypass Left Common Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041D4ZR	Bypass Left Common Iliac Artery to Lower Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E099	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E09B	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E09C	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E09D	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E09F	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E09G	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E09H	Bypass Right Internal Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E09J	Bypass Right Internal Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E09K	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E09P	Bypass Right Internal Iliac Artery to Foot Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E09Q	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041E0A9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041E0AB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041E0AC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041E0AD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041E0AF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041E0AG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041E0AH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041E0AJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041E0AK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041E0AP	Bypass Right Internal Iliac Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041E0AQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041E0J9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0JB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0JC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0JD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0JF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0JG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0JH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0JJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0JK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0JP	Bypass Right Internal Iliac Artery to Foot Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0JQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041E0K9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041E0KB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041E0KC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041E0KD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041E0KF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041E0KG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041E0KH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041E0KJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041E0KK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041E0KP	Bypass Right Internal Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041E0KQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041E0Z9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041E0ZB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041E0ZC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041E0ZD	Bypass Right Internal Iliac Artery to Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041E0ZF	Bypass Right Internal Iliac Artery to Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041E0ZG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041E0ZH	Bypass Right Internal Iliac Artery to Right Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041E0ZJ	Bypass Right Internal Iliac Artery to Left Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041E0ZK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries, Open Approach	Procedure	ICD-10-PCS
041E0ZP	Bypass Right Internal Iliac Artery to Foot Artery, Open Approach	Procedure	ICD-10-PCS
041E0ZQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery, Open Approach	Procedure	ICD-10-PCS
041E499	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E49B	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E49C	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E49D	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E49F	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E49G	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E49H	Bypass Right Internal Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E49J	Bypass Right Internal Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E49K	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E49P	Bypass Right Internal Iliac Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E49Q	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4A9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4AB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4AC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4AD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041E4AF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4AG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4AH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4AJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4AK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4AP	Bypass Right Internal Iliac Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4AQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4J9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4JB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4JC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4JD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4JF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4JG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4JH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4JJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4JK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4JP	Bypass Right Internal Iliac Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4JQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4K9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4KB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4KC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4KD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041E4KF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4KG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4KH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4KJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4KK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4KP	Bypass Right Internal Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4KQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4Z9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4ZB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4ZC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4ZD	Bypass Right Internal Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4ZF	Bypass Right Internal Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4ZG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4ZH	Bypass Right Internal Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4ZJ	Bypass Right Internal Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4ZK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4ZP	Bypass Right Internal Iliac Artery to Foot Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041E4ZQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F099	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041F09B	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041F09C	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041F09D	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041F09F	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041F09G	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041F09H	Bypass Left Internal Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041F09J	Bypass Left Internal Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041F09K	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041F09P	Bypass Left Internal Iliac Artery to Foot Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041F09Q	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041F0A9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0AB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0AC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0AD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0AF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0AG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0AH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0AJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0AK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0AP	Bypass Left Internal Iliac Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0AQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041F0J9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041F0JB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041F0JC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041F0JD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041F0JF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041F0JG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041F0JH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041F0JJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041F0JK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041F0JP	Bypass Left Internal Iliac Artery to Foot Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041F0JQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041F0K9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0KB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0KC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0KD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0KF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0KG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0KH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0KJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0KK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0KP	Bypass Left Internal Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0KQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041F0Z9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041F0ZB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041F0ZC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041F0ZD	Bypass Left Internal Iliac Artery to Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041F0ZF	Bypass Left Internal Iliac Artery to Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041F0ZG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041F0ZH	Bypass Left Internal Iliac Artery to Right Femoral Artery, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041F0ZJ	Bypass Left Internal Iliac Artery to Left Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041F0ZK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries, Open Approach	Procedure	ICD-10-PCS
041F0ZP	Bypass Left Internal Iliac Artery to Foot Artery, Open Approach	Procedure	ICD-10-PCS
041F0ZQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery, Open Approach	Procedure	ICD-10-PCS
041F499	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F49B	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F49C	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F49D	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F49F	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F49G	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F49H	Bypass Left Internal Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F49J	Bypass Left Internal Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F49K	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F49P	Bypass Left Internal Iliac Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F49Q	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4A9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4AB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4AC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4AD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4AF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4AG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4AH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4AJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4AK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041F4AP	Bypass Left Internal Iliac Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4AQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4J9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4JB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4JC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4JD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4JF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4JG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4JH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4JJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4JK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4JP	Bypass Left Internal Iliac Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4JQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4K9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4KB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4KC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4KD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4KF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4KG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4KH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4KJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4KK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041F4KP	Bypass Left Internal Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4KQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4Z9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4ZB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4ZC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4ZD	Bypass Left Internal Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4ZF	Bypass Left Internal Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4ZG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4ZH	Bypass Left Internal Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4ZJ	Bypass Left Internal Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4ZK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4ZP	Bypass Left Internal Iliac Artery to Foot Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041F4ZQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H099	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041H09B	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041H09C	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041H09D	Bypass Right External Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041H09F	Bypass Right External Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041H09G	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041H09H	Bypass Right External Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041H09J	Bypass Right External Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041H09K	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041H09P	Bypass Right External Iliac Artery to Foot Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041H09Q	Bypass Right External Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041H0A9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0AB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0AC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0AD	Bypass Right External Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0AF	Bypass Right External Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0AG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0AH	Bypass Right External Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0AJ	Bypass Right External Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0AK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0AP	Bypass Right External Iliac Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0AQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041H0J9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041H0JB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041H0JC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041H0JD	Bypass Right External Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041H0JF	Bypass Right External Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041H0JG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041H0JH	Bypass Right External Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041H0JJ	Bypass Right External Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041H0JK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041H0JP	Bypass Right External Iliac Artery to Foot Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041H0JQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041H0K9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0KB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0KC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0KD	Bypass Right External Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0KF	Bypass Right External Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0KG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0KH	Bypass Right External Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0KJ	Bypass Right External Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0KK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0KP	Bypass Right External Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0KQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041H0Z9	Bypass Right External Iliac Artery to Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041H0ZB	Bypass Right External Iliac Artery to Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041H0ZC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041H0ZD	Bypass Right External Iliac Artery to Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041H0ZF	Bypass Right External Iliac Artery to Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041H0ZG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041H0ZH	Bypass Right External Iliac Artery to Right Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041H0ZJ	Bypass Right External Iliac Artery to Left Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041H0ZK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries, Open Approach	Procedure	ICD-10-PCS
041H0ZP	Bypass Right External Iliac Artery to Foot Artery, Open Approach	Procedure	ICD-10-PCS
041H0ZQ	Bypass Right External Iliac Artery to Lower Extremity Artery, Open Approach	Procedure	ICD-10-PCS
041H499	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H49B	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H49C	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041H49D	Bypass Right External Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H49F	Bypass Right External Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H49G	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H49H	Bypass Right External Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H49J	Bypass Right External Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H49K	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H49P	Bypass Right External Iliac Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H49Q	Bypass Right External Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4A9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4AB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4AC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4AD	Bypass Right External Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4AF	Bypass Right External Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4AG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4AH	Bypass Right External Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4AJ	Bypass Right External Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4AK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4AP	Bypass Right External Iliac Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4AQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4J9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4JB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4JC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041H4JD	Bypass Right External Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4JF	Bypass Right External Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4JG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4JH	Bypass Right External Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4JJ	Bypass Right External Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4JK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4JP	Bypass Right External Iliac Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4JQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4K9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4KB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4KC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4KD	Bypass Right External Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4KF	Bypass Right External Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4KG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4KH	Bypass Right External Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4KJ	Bypass Right External Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4KK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4KP	Bypass Right External Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4KQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4Z9	Bypass Right External Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4ZB	Bypass Right External Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4ZC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041H4ZD	Bypass Right External Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4ZF	Bypass Right External Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4ZG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4ZH	Bypass Right External Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4ZJ	Bypass Right External Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4ZK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4ZP	Bypass Right External Iliac Artery to Foot Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041H4ZQ	Bypass Right External Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J099	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J09B	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J09C	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J09D	Bypass Left External Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J09F	Bypass Left External Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J09G	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J09H	Bypass Left External Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J09J	Bypass Left External Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J09K	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J09P	Bypass Left External Iliac Artery to Foot Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J09Q	Bypass Left External Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
041J0A9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041J0AB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041J0AC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041J0AD	Bypass Left External Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041J0AF	Bypass Left External Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041J0AG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041J0AH	Bypass Left External Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041J0AJ	Bypass Left External Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041J0AK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041J0AP	Bypass Left External Iliac Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041J0AQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
041J0J9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0JB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0JC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0JD	Bypass Left External Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0JF	Bypass Left External Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0JG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0JH	Bypass Left External Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0JJ	Bypass Left External Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0JK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0JP	Bypass Left External Iliac Artery to Foot Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0JQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
041J0K9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041J0KB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041J0KC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041J0KD	Bypass Left External Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041J0KF	Bypass Left External Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041J0KG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041J0KH	Bypass Left External Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041J0KJ	Bypass Left External Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041J0KK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041J0KP	Bypass Left External Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041J0KQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
041J0Z9	Bypass Left External Iliac Artery to Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041J0ZB	Bypass Left External Iliac Artery to Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041J0ZC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041J0ZD	Bypass Left External Iliac Artery to Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041J0ZF	Bypass Left External Iliac Artery to Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
041J0ZG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries, Open Approach	Procedure	ICD-10-PCS
041J0ZH	Bypass Left External Iliac Artery to Right Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041J0ZJ	Bypass Left External Iliac Artery to Left Femoral Artery, Open Approach	Procedure	ICD-10-PCS
041J0ZK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries, Open Approach	Procedure	ICD-10-PCS
041J0ZP	Bypass Left External Iliac Artery to Foot Artery, Open Approach	Procedure	ICD-10-PCS
041J0ZQ	Bypass Left External Iliac Artery to Lower Extremity Artery, Open Approach	Procedure	ICD-10-PCS
041J499	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J49B	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J49C	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J49D	Bypass Left External Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J49F	Bypass Left External Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J49G	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J49H	Bypass Left External Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J49J	Bypass Left External Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041J49K	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J49P	Bypass Left External Iliac Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J49Q	Bypass Left External Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4A9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4AB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4AC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4AD	Bypass Left External Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4AF	Bypass Left External Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4AG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4AH	Bypass Left External Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4AJ	Bypass Left External Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4AK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4AP	Bypass Left External Iliac Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4AQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4J9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4JB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4JC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4JD	Bypass Left External Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4JF	Bypass Left External Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4JG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4JH	Bypass Left External Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4JJ	Bypass Left External Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041J4JK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4JP	Bypass Left External Iliac Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4JQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4K9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4KB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4KC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4KD	Bypass Left External Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4KF	Bypass Left External Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4KG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4KH	Bypass Left External Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4KJ	Bypass Left External Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4KK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4KP	Bypass Left External Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4KQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4Z9	Bypass Left External Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4ZB	Bypass Left External Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4ZC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4ZD	Bypass Left External Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4ZF	Bypass Left External Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4ZG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4ZH	Bypass Left External Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4ZJ	Bypass Left External Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
041J4ZK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4ZP	Bypass Left External Iliac Artery to Foot Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
041J4ZQ	Bypass Left External Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04500ZZ	Destruction of Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04503ZZ	Destruction of Abdominal Aorta, Percutaneous Approach	Procedure	ICD-10-PCS
04504ZZ	Destruction of Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04510ZZ	Destruction of Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04513ZZ	Destruction of Celiac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04514ZZ	Destruction of Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04520ZZ	Destruction of Gastric Artery, Open Approach	Procedure	ICD-10-PCS
04523ZZ	Destruction of Gastric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04524ZZ	Destruction of Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04530ZZ	Destruction of Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
04533ZZ	Destruction of Hepatic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04534ZZ	Destruction of Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04540ZZ	Destruction of Splenic Artery, Open Approach	Procedure	ICD-10-PCS
04543ZZ	Destruction of Splenic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04544ZZ	Destruction of Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04550ZZ	Destruction of Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04553ZZ	Destruction of Superior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04554ZZ	Destruction of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04560ZZ	Destruction of Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
04563ZZ	Destruction of Right Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04564ZZ	Destruction of Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04570ZZ	Destruction of Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
04573ZZ	Destruction of Left Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04574ZZ	Destruction of Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04580ZZ	Destruction of Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
04583ZZ	Destruction of Middle Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04584ZZ	Destruction of Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04590ZZ	Destruction of Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04593ZZ	Destruction of Right Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04594ZZ	Destruction of Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
045A0ZZ	Destruction of Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
045A3ZZ	Destruction of Left Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
045A4ZZ	Destruction of Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
045B0ZZ	Destruction of Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
045B3ZZ	Destruction of Inferior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
045B4ZZ	Destruction of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
045C0ZZ	Destruction of Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
045C3ZZ	Destruction of Right Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
045C4ZZ	Destruction of Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
045D0ZZ	Destruction of Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
045D3ZZ	Destruction of Left Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
045D4ZZ	Destruction of Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
045E0ZZ	Destruction of Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
045E3ZZ	Destruction of Right Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
045E4ZZ	Destruction of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
045F0ZZ	Destruction of Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
045F3ZZ	Destruction of Left Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
045F4ZZ	Destruction of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
045H0ZZ	Destruction of Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
045H3ZZ	Destruction of Right External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
045H4ZZ	Destruction of Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
045J0ZZ	Destruction of Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
045J3ZZ	Destruction of Left External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
045J4ZZ	Destruction of Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0470041	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
0470046	Dilation of Abdominal Aorta, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047004Z	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0470056	Dilation of Abdominal Aorta, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047005Z	Dilation of Abdominal Aorta with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0470066	Dilation of Abdominal Aorta, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047006Z	Dilation of Abdominal Aorta with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0470076	Dilation of Abdominal Aorta, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047007Z	Dilation of Abdominal Aorta with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04700D1	Dilation of Abdominal Aorta with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04700D6	Dilation of Abdominal Aorta, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04700DZ	Dilation of Abdominal Aorta with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04700E6	Dilation of Abdominal Aorta, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04700EZ	Dilation of Abdominal Aorta with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04700F6	Dilation of Abdominal Aorta, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04700FZ	Dilation of Abdominal Aorta with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04700G6	Dilation of Abdominal Aorta, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04700GZ	Dilation of Abdominal Aorta with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04700Z1	Dilation of Abdominal Aorta using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04700Z6	Dilation of Abdominal Aorta, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04700ZZ	Dilation of Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
0470341	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
0470346	Dilation of Abdominal Aorta, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047034Z	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0470356	Dilation of Abdominal Aorta, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047035Z	Dilation of Abdominal Aorta with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0470366	Dilation of Abdominal Aorta, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047036Z	Dilation of Abdominal Aorta with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0470376	Dilation of Abdominal Aorta, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047037Z	Dilation of Abdominal Aorta with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04703D1	Dilation of Abdominal Aorta with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04703D6	Dilation of Abdominal Aorta, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04703DZ	Dilation of Abdominal Aorta with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04703E6	Dilation of Abdominal Aorta, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04703EZ	Dilation of Abdominal Aorta with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04703F6	Dilation of Abdominal Aorta, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04703FZ	Dilation of Abdominal Aorta with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04703G6	Dilation of Abdominal Aorta, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04703GZ	Dilation of Abdominal Aorta with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04703Z1	Dilation of Abdominal Aorta using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04703Z6	Dilation of Abdominal Aorta, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04703ZZ	Dilation of Abdominal Aorta, Percutaneous Approach	Procedure	ICD-10-PCS
0470441	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0470446	Dilation of Abdominal Aorta, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047044Z	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0470456	Dilation of Abdominal Aorta, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047045Z	Dilation of Abdominal Aorta with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0470466	Dilation of Abdominal Aorta, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047046Z	Dilation of Abdominal Aorta with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0470476	Dilation of Abdominal Aorta, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047047Z	Dilation of Abdominal Aorta with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704D1	Dilation of Abdominal Aorta with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704D6	Dilation of Abdominal Aorta, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704DZ	Dilation of Abdominal Aorta with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704E6	Dilation of Abdominal Aorta, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704EZ	Dilation of Abdominal Aorta with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704F6	Dilation of Abdominal Aorta, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704FZ	Dilation of Abdominal Aorta with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704G6	Dilation of Abdominal Aorta, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704GZ	Dilation of Abdominal Aorta with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704Z1	Dilation of Abdominal Aorta using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704Z6	Dilation of Abdominal Aorta, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04704ZZ	Dilation of Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0471041	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
0471046	Dilation of Celiac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047104Z	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0471056	Dilation of Celiac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047105Z	Dilation of Celiac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0471066	Dilation of Celiac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047106Z	Dilation of Celiac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0471076	Dilation of Celiac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047107Z	Dilation of Celiac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04710D1	Dilation of Celiac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04710D6	Dilation of Celiac Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04710DZ	Dilation of Celiac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04710E6	Dilation of Celiac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04710EZ	Dilation of Celiac Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04710F6	Dilation of Celiac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04710FZ	Dilation of Celiac Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04710G6	Dilation of Celiac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04710GZ	Dilation of Celiac Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04710Z1	Dilation of Celiac Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04710Z6	Dilation of Celiac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04710ZZ	Dilation of Celiac Artery, Open Approach	Procedure	ICD-10-PCS
0471341	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
0471346	Dilation of Celiac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047134Z	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0471356	Dilation of Celiac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047135Z	Dilation of Celiac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0471366	Dilation of Celiac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047136Z	Dilation of Celiac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0471376	Dilation of Celiac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047137Z	Dilation of Celiac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04713D1	Dilation of Celiac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04713D6	Dilation of Celiac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04713DZ	Dilation of Celiac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04713E6	Dilation of Celiac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04713EZ	Dilation of Celiac Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04713F6	Dilation of Celiac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04713FZ	Dilation of Celiac Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04713G6	Dilation of Celiac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04713GZ	Dilation of Celiac Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04713Z1	Dilation of Celiac Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04713Z6	Dilation of Celiac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04713ZZ	Dilation of Celiac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
0471441	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0471446	Dilation of Celiac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047144Z	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0471456	Dilation of Celiac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047145Z	Dilation of Celiac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0471466	Dilation of Celiac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047146Z	Dilation of Celiac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0471476	Dilation of Celiac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047147Z	Dilation of Celiac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714D1	Dilation of Celiac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714D6	Dilation of Celiac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04714DZ	Dilation of Celiac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714E6	Dilation of Celiac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714EZ	Dilation of Celiac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714F6	Dilation of Celiac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714FZ	Dilation of Celiac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714G6	Dilation of Celiac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714GZ	Dilation of Celiac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714Z1	Dilation of Celiac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714Z6	Dilation of Celiac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04714ZZ	Dilation of Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0472041	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
0472046	Dilation of Gastric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047204Z	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0472056	Dilation of Gastric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047205Z	Dilation of Gastric Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0472066	Dilation of Gastric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047206Z	Dilation of Gastric Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0472076	Dilation of Gastric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047207Z	Dilation of Gastric Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04720D1	Dilation of Gastric Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04720D6	Dilation of Gastric Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04720DZ	Dilation of Gastric Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04720E6	Dilation of Gastric Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04720EZ	Dilation of Gastric Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04720F6	Dilation of Gastric Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04720FZ	Dilation of Gastric Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04720G6	Dilation of Gastric Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04720GZ	Dilation of Gastric Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04720Z1	Dilation of Gastric Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04720Z6	Dilation of Gastric Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04720ZZ	Dilation of Gastric Artery, Open Approach	Procedure	ICD-10-PCS
0472341	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
0472346	Dilation of Gastric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047234Z	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0472356	Dilation of Gastric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047235Z	Dilation of Gastric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0472366	Dilation of Gastric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047236Z	Dilation of Gastric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0472376	Dilation of Gastric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047237Z	Dilation of Gastric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04723D1	Dilation of Gastric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04723D6	Dilation of Gastric Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04723DZ	Dilation of Gastric Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04723E6	Dilation of Gastric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04723EZ	Dilation of Gastric Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04723F6	Dilation of Gastric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04723FZ	Dilation of Gastric Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04723G6	Dilation of Gastric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04723GZ	Dilation of Gastric Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04723Z1	Dilation of Gastric Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04723Z6	Dilation of Gastric Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04723ZZ	Dilation of Gastric Artery, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0472441	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0472446	Dilation of Gastric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047244Z	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0472456	Dilation of Gastric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047245Z	Dilation of Gastric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0472466	Dilation of Gastric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047246Z	Dilation of Gastric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0472476	Dilation of Gastric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047247Z	Dilation of Gastric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724D1	Dilation of Gastric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724D6	Dilation of Gastric Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724DZ	Dilation of Gastric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724E6	Dilation of Gastric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724EZ	Dilation of Gastric Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724F6	Dilation of Gastric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724FZ	Dilation of Gastric Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724G6	Dilation of Gastric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724GZ	Dilation of Gastric Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724Z1	Dilation of Gastric Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724Z6	Dilation of Gastric Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04724ZZ	Dilation of Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0473041	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
0473046	Dilation of Hepatic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047304Z	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0473056	Dilation of Hepatic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047305Z	Dilation of Hepatic Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0473066	Dilation of Hepatic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047306Z	Dilation of Hepatic Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0473076	Dilation of Hepatic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047307Z	Dilation of Hepatic Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04730D1	Dilation of Hepatic Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04730D6	Dilation of Hepatic Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04730DZ	Dilation of Hepatic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04730E6	Dilation of Hepatic Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04730EZ	Dilation of Hepatic Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04730F6	Dilation of Hepatic Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04730FZ	Dilation of Hepatic Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04730G6	Dilation of Hepatic Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04730GZ	Dilation of Hepatic Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04730Z1	Dilation of Hepatic Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04730Z6	Dilation of Hepatic Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04730ZZ	Dilation of Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
0473341	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
0473346	Dilation of Hepatic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047334Z	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0473356	Dilation of Hepatic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047335Z	Dilation of Hepatic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0473366	Dilation of Hepatic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047336Z	Dilation of Hepatic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0473376	Dilation of Hepatic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047337Z	Dilation of Hepatic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04733D1	Dilation of Hepatic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04733D6	Dilation of Hepatic Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04733DZ	Dilation of Hepatic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04733E6	Dilation of Hepatic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04733EZ	Dilation of Hepatic Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04733F6	Dilation of Hepatic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04733FZ	Dilation of Hepatic Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04733G6	Dilation of Hepatic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04733GZ	Dilation of Hepatic Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04733Z1	Dilation of Hepatic Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04733Z6	Dilation of Hepatic Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04733ZZ	Dilation of Hepatic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
0473441	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0473446	Dilation of Hepatic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047344Z	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0473456	Dilation of Hepatic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047345Z	Dilation of Hepatic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0473466	Dilation of Hepatic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047346Z	Dilation of Hepatic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0473476	Dilation of Hepatic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047347Z	Dilation of Hepatic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734D1	Dilation of Hepatic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04734D6	Dilation of Hepatic Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734DZ	Dilation of Hepatic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734E6	Dilation of Hepatic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734EZ	Dilation of Hepatic Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734F6	Dilation of Hepatic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734FZ	Dilation of Hepatic Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734G6	Dilation of Hepatic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734GZ	Dilation of Hepatic Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734Z1	Dilation of Hepatic Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734Z6	Dilation of Hepatic Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04734ZZ	Dilation of Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0474041	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
0474046	Dilation of Splenic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047404Z	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0474056	Dilation of Splenic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047405Z	Dilation of Splenic Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0474066	Dilation of Splenic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047406Z	Dilation of Splenic Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0474076	Dilation of Splenic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047407Z	Dilation of Splenic Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04740D1	Dilation of Splenic Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04740D6	Dilation of Splenic Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04740DZ	Dilation of Splenic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04740E6	Dilation of Splenic Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04740EZ	Dilation of Splenic Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04740F6	Dilation of Splenic Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04740FZ	Dilation of Splenic Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04740G6	Dilation of Splenic Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04740GZ	Dilation of Splenic Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04740Z1	Dilation of Splenic Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04740Z6	Dilation of Splenic Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04740ZZ	Dilation of Splenic Artery, Open Approach	Procedure	ICD-10-PCS
0474341	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
0474346	Dilation of Splenic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047434Z	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0474356	Dilation of Splenic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047435Z	Dilation of Splenic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0474366	Dilation of Splenic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047436Z	Dilation of Splenic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0474376	Dilation of Splenic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047437Z	Dilation of Splenic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04743D1	Dilation of Splenic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04743D6	Dilation of Splenic Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04743DZ	Dilation of Splenic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04743E6	Dilation of Splenic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04743EZ	Dilation of Splenic Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04743F6	Dilation of Splenic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04743FZ	Dilation of Splenic Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04743G6	Dilation of Splenic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04743GZ	Dilation of Splenic Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04743Z1	Dilation of Splenic Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04743Z6	Dilation of Splenic Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04743ZZ	Dilation of Splenic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
0474441	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0474446	Dilation of Splenic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047444Z	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0474456	Dilation of Splenic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047445Z	Dilation of Splenic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0474466	Dilation of Splenic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047446Z	Dilation of Splenic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0474476	Dilation of Splenic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047447Z	Dilation of Splenic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744D1	Dilation of Splenic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744D6	Dilation of Splenic Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744DZ	Dilation of Splenic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744E6	Dilation of Splenic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744EZ	Dilation of Splenic Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744F6	Dilation of Splenic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744FZ	Dilation of Splenic Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744G6	Dilation of Splenic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744GZ	Dilation of Splenic Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744Z1	Dilation of Splenic Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744Z6	Dilation of Splenic Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04744ZZ	Dilation of Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0475041	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0475046	Dilation of Superior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047504Z	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0475056	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047505Z	Dilation of Superior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0475066	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047506Z	Dilation of Superior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0475076	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047507Z	Dilation of Superior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04750D1	Dilation of Superior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04750D6	Dilation of Superior Mesenteric Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04750DZ	Dilation of Superior Mesenteric Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04750E6	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04750EZ	Dilation of Superior Mesenteric Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04750F6	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04750FZ	Dilation of Superior Mesenteric Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04750G6	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04750GZ	Dilation of Superior Mesenteric Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04750Z1	Dilation of Superior Mesenteric Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04750Z6	Dilation of Superior Mesenteric Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04750ZZ	Dilation of Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
0475341	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
0475346	Dilation of Superior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047534Z	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0475356	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047535Z	Dilation of Superior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0475366	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047536Z	Dilation of Superior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0475376	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047537Z	Dilation of Superior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04753D1	Dilation of Superior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04753D6	Dilation of Superior Mesenteric Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04753DZ	Dilation of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04753E6	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04753EZ	Dilation of Superior Mesenteric Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04753F6	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04753FZ	Dilation of Superior Mesenteric Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04753G6	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04753GZ	Dilation of Superior Mesenteric Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04753Z1	Dilation of Superior Mesenteric Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04753Z6	Dilation of Superior Mesenteric Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04753ZZ	Dilation of Superior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
0475441	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0475446	Dilation of Superior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047544Z	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0475456	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047545Z	Dilation of Superior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0475466	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047546Z	Dilation of Superior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0475476	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047547Z	Dilation of Superior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754D1	Dilation of Superior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754D6	Dilation of Superior Mesenteric Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754DZ	Dilation of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754E6	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754EZ	Dilation of Superior Mesenteric Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754F6	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754FZ	Dilation of Superior Mesenteric Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754G6	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754GZ	Dilation of Superior Mesenteric Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754Z1	Dilation of Superior Mesenteric Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754Z6	Dilation of Superior Mesenteric Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04754ZZ	Dilation of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0476041	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
0476046	Dilation of Right Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047604Z	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0476056	Dilation of Right Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047605Z	Dilation of Right Colic Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0476066	Dilation of Right Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047606Z	Dilation of Right Colic Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0476076	Dilation of Right Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047607Z	Dilation of Right Colic Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04760D1	Dilation of Right Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04760D6	Dilation of Right Colic Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04760DZ	Dilation of Right Colic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04760E6	Dilation of Right Colic Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04760EZ	Dilation of Right Colic Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04760F6	Dilation of Right Colic Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04760FZ	Dilation of Right Colic Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04760G6	Dilation of Right Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04760GZ	Dilation of Right Colic Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04760Z1	Dilation of Right Colic Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04760Z6	Dilation of Right Colic Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04760ZZ	Dilation of Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
0476341	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
0476346	Dilation of Right Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047634Z	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0476356	Dilation of Right Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047635Z	Dilation of Right Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0476366	Dilation of Right Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047636Z	Dilation of Right Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0476376	Dilation of Right Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047637Z	Dilation of Right Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04763D1	Dilation of Right Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04763D6	Dilation of Right Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04763DZ	Dilation of Right Colic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04763E6	Dilation of Right Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04763EZ	Dilation of Right Colic Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04763F6	Dilation of Right Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04763FZ	Dilation of Right Colic Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04763G6	Dilation of Right Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04763GZ	Dilation of Right Colic Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04763Z1	Dilation of Right Colic Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04763Z6	Dilation of Right Colic Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04763ZZ	Dilation of Right Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
0476441	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0476446	Dilation of Right Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047644Z	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0476456	Dilation of Right Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047645Z	Dilation of Right Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0476466	Dilation of Right Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047646Z	Dilation of Right Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0476476	Dilation of Right Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047647Z	Dilation of Right Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764D1	Dilation of Right Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764D6	Dilation of Right Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764DZ	Dilation of Right Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764E6	Dilation of Right Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764EZ	Dilation of Right Colic Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764F6	Dilation of Right Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04764FZ	Dilation of Right Colic Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764G6	Dilation of Right Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764GZ	Dilation of Right Colic Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764Z1	Dilation of Right Colic Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764Z6	Dilation of Right Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04764ZZ	Dilation of Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0477041	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
0477046	Dilation of Left Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047704Z	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0477056	Dilation of Left Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047705Z	Dilation of Left Colic Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0477066	Dilation of Left Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047706Z	Dilation of Left Colic Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0477076	Dilation of Left Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047707Z	Dilation of Left Colic Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04770D1	Dilation of Left Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04770D6	Dilation of Left Colic Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04770DZ	Dilation of Left Colic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04770E6	Dilation of Left Colic Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04770EZ	Dilation of Left Colic Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04770F6	Dilation of Left Colic Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04770FZ	Dilation of Left Colic Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04770G6	Dilation of Left Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04770GZ	Dilation of Left Colic Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04770Z1	Dilation of Left Colic Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04770Z6	Dilation of Left Colic Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04770ZZ	Dilation of Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
0477341	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
0477346	Dilation of Left Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047734Z	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0477356	Dilation of Left Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047735Z	Dilation of Left Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0477366	Dilation of Left Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047736Z	Dilation of Left Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0477376	Dilation of Left Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047737Z	Dilation of Left Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04773D1	Dilation of Left Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04773D6	Dilation of Left Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04773DZ	Dilation of Left Colic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04773E6	Dilation of Left Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04773EZ	Dilation of Left Colic Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04773F6	Dilation of Left Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04773FZ	Dilation of Left Colic Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04773G6	Dilation of Left Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04773GZ	Dilation of Left Colic Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04773Z1	Dilation of Left Colic Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04773Z6	Dilation of Left Colic Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04773ZZ	Dilation of Left Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
0477441	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0477446	Dilation of Left Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047744Z	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0477456	Dilation of Left Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047745Z	Dilation of Left Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0477466	Dilation of Left Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047746Z	Dilation of Left Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0477476	Dilation of Left Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047747Z	Dilation of Left Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774D1	Dilation of Left Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774D6	Dilation of Left Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774DZ	Dilation of Left Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774E6	Dilation of Left Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774EZ	Dilation of Left Colic Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774F6	Dilation of Left Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774FZ	Dilation of Left Colic Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774G6	Dilation of Left Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774GZ	Dilation of Left Colic Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774Z1	Dilation of Left Colic Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774Z6	Dilation of Left Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04774ZZ	Dilation of Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0478041	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
0478046	Dilation of Middle Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047804Z	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0478056	Dilation of Middle Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047805Z	Dilation of Middle Colic Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0478066	Dilation of Middle Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047806Z	Dilation of Middle Colic Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0478076	Dilation of Middle Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047807Z	Dilation of Middle Colic Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04780D1	Dilation of Middle Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04780D6	Dilation of Middle Colic Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04780DZ	Dilation of Middle Colic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04780E6	Dilation of Middle Colic Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04780EZ	Dilation of Middle Colic Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04780F6	Dilation of Middle Colic Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04780FZ	Dilation of Middle Colic Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04780G6	Dilation of Middle Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04780GZ	Dilation of Middle Colic Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04780Z1	Dilation of Middle Colic Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04780Z6	Dilation of Middle Colic Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04780ZZ	Dilation of Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
0478341	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
0478346	Dilation of Middle Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047834Z	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0478356	Dilation of Middle Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047835Z	Dilation of Middle Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0478366	Dilation of Middle Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047836Z	Dilation of Middle Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0478376	Dilation of Middle Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047837Z	Dilation of Middle Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04783D1	Dilation of Middle Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04783D6	Dilation of Middle Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04783DZ	Dilation of Middle Colic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04783E6	Dilation of Middle Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04783EZ	Dilation of Middle Colic Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04783F6	Dilation of Middle Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04783FZ	Dilation of Middle Colic Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04783G6	Dilation of Middle Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04783GZ	Dilation of Middle Colic Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04783Z1	Dilation of Middle Colic Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04783Z6	Dilation of Middle Colic Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04783ZZ	Dilation of Middle Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
0478441	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0478446	Dilation of Middle Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047844Z	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0478456	Dilation of Middle Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047845Z	Dilation of Middle Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0478466	Dilation of Middle Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047846Z	Dilation of Middle Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0478476	Dilation of Middle Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047847Z	Dilation of Middle Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784D1	Dilation of Middle Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784D6	Dilation of Middle Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04784DZ	Dilation of Middle Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784E6	Dilation of Middle Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784EZ	Dilation of Middle Colic Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784F6	Dilation of Middle Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784FZ	Dilation of Middle Colic Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784G6	Dilation of Middle Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784GZ	Dilation of Middle Colic Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784Z1	Dilation of Middle Colic Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784Z6	Dilation of Middle Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04784ZZ	Dilation of Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0479041	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
0479046	Dilation of Right Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047904Z	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0479056	Dilation of Right Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047905Z	Dilation of Right Renal Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0479066	Dilation of Right Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047906Z	Dilation of Right Renal Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0479076	Dilation of Right Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047907Z	Dilation of Right Renal Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04790D1	Dilation of Right Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04790D6	Dilation of Right Renal Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04790DZ	Dilation of Right Renal Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04790E6	Dilation of Right Renal Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04790EZ	Dilation of Right Renal Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04790F6	Dilation of Right Renal Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04790FZ	Dilation of Right Renal Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04790G6	Dilation of Right Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04790GZ	Dilation of Right Renal Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
04790Z1	Dilation of Right Renal Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
04790Z6	Dilation of Right Renal Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04790ZZ	Dilation of Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
0479341	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
0479346	Dilation of Right Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047934Z	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0479356	Dilation of Right Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047935Z	Dilation of Right Renal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0479366	Dilation of Right Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047936Z	Dilation of Right Renal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0479376	Dilation of Right Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047937Z	Dilation of Right Renal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04793D1	Dilation of Right Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04793D6	Dilation of Right Renal Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04793DZ	Dilation of Right Renal Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04793E6	Dilation of Right Renal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04793EZ	Dilation of Right Renal Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04793F6	Dilation of Right Renal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04793FZ	Dilation of Right Renal Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04793G6	Dilation of Right Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
04793GZ	Dilation of Right Renal Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04793Z1	Dilation of Right Renal Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
04793Z6	Dilation of Right Renal Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04793ZZ	Dilation of Right Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
0479441	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0479446	Dilation of Right Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047944Z	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0479456	Dilation of Right Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047945Z	Dilation of Right Renal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0479466	Dilation of Right Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047946Z	Dilation of Right Renal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0479476	Dilation of Right Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047947Z	Dilation of Right Renal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794D1	Dilation of Right Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794D6	Dilation of Right Renal Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794DZ	Dilation of Right Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794E6	Dilation of Right Renal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794EZ	Dilation of Right Renal Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794F6	Dilation of Right Renal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794FZ	Dilation of Right Renal Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794G6	Dilation of Right Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794GZ	Dilation of Right Renal Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794Z1	Dilation of Right Renal Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794Z6	Dilation of Right Renal Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04794ZZ	Dilation of Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047A041	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047A046	Dilation of Left Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047A04Z	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047A056	Dilation of Left Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A05Z	Dilation of Left Renal Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A066	Dilation of Left Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A06Z	Dilation of Left Renal Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A076	Dilation of Left Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A07Z	Dilation of Left Renal Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A0D1	Dilation of Left Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047A0D6	Dilation of Left Renal Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047A0DZ	Dilation of Left Renal Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047A0E6	Dilation of Left Renal Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A0EZ	Dilation of Left Renal Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A0F6	Dilation of Left Renal Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A0FZ	Dilation of Left Renal Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A0G6	Dilation of Left Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A0GZ	Dilation of Left Renal Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047A0Z1	Dilation of Left Renal Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047A0Z6	Dilation of Left Renal Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
047A0ZZ	Dilation of Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
047A341	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047A346	Dilation of Left Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047A34Z	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047A356	Dilation of Left Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047A35Z	Dilation of Left Renal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A366	Dilation of Left Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A36Z	Dilation of Left Renal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A376	Dilation of Left Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A37Z	Dilation of Left Renal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A3D1	Dilation of Left Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047A3D6	Dilation of Left Renal Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047A3DZ	Dilation of Left Renal Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047A3E6	Dilation of Left Renal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A3EZ	Dilation of Left Renal Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A3F6	Dilation of Left Renal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A3FZ	Dilation of Left Renal Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A3G6	Dilation of Left Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A3GZ	Dilation of Left Renal Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047A3Z1	Dilation of Left Renal Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047A3Z6	Dilation of Left Renal Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
047A3ZZ	Dilation of Left Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
047A441	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A446	Dilation of Left Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A44Z	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A456	Dilation of Left Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A45Z	Dilation of Left Renal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A466	Dilation of Left Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A46Z	Dilation of Left Renal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047A476	Dilation of Left Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A47Z	Dilation of Left Renal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4D1	Dilation of Left Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4D6	Dilation of Left Renal Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4DZ	Dilation of Left Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4E6	Dilation of Left Renal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4EZ	Dilation of Left Renal Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4F6	Dilation of Left Renal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4FZ	Dilation of Left Renal Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4G6	Dilation of Left Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4GZ	Dilation of Left Renal Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4Z1	Dilation of Left Renal Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4Z6	Dilation of Left Renal Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047A4ZZ	Dilation of Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B041	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047B046	Dilation of Inferior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047B04Z	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047B056	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B05Z	Dilation of Inferior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B066	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B06Z	Dilation of Inferior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B076	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B07Z	Dilation of Inferior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047B0D1	Dilation of Inferior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047B0D6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047B0DZ	Dilation of Inferior Mesenteric Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047B0E6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B0EZ	Dilation of Inferior Mesenteric Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B0F6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B0FZ	Dilation of Inferior Mesenteric Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B0G6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B0GZ	Dilation of Inferior Mesenteric Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047B0Z1	Dilation of Inferior Mesenteric Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047B0Z6	Dilation of Inferior Mesenteric Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
047B0ZZ	Dilation of Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
047B341	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047B346	Dilation of Inferior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047B34Z	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047B356	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B35Z	Dilation of Inferior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B366	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B36Z	Dilation of Inferior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B376	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B37Z	Dilation of Inferior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B3D1	Dilation of Inferior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047B3D6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047B3DZ	Dilation of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047B3E6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B3EZ	Dilation of Inferior Mesenteric Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B3F6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B3FZ	Dilation of Inferior Mesenteric Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B3G6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B3GZ	Dilation of Inferior Mesenteric Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047B3Z1	Dilation of Inferior Mesenteric Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047B3Z6	Dilation of Inferior Mesenteric Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
047B3ZZ	Dilation of Inferior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
047B441	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B446	Dilation of Inferior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B44Z	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B456	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B45Z	Dilation of Inferior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B466	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B46Z	Dilation of Inferior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B476	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B47Z	Dilation of Inferior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4D1	Dilation of Inferior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4D6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4DZ	Dilation of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4E6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4EZ	Dilation of Inferior Mesenteric Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047B4F6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4FZ	Dilation of Inferior Mesenteric Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4G6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4GZ	Dilation of Inferior Mesenteric Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4Z1	Dilation of Inferior Mesenteric Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4Z6	Dilation of Inferior Mesenteric Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047B4ZZ	Dilation of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C041	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047C046	Dilation of Right Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047C04Z	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047C056	Dilation of Right Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C05Z	Dilation of Right Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C066	Dilation of Right Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C06Z	Dilation of Right Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C076	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C07Z	Dilation of Right Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C0D1	Dilation of Right Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047C0D6	Dilation of Right Common Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047C0DZ	Dilation of Right Common Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047C0E6	Dilation of Right Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C0EZ	Dilation of Right Common Iliac Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C0F6	Dilation of Right Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C0FZ	Dilation of Right Common Iliac Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047C0G6	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C0GZ	Dilation of Right Common Iliac Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047C0Z1	Dilation of Right Common Iliac Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047C0Z6	Dilation of Right Common Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
047C0ZZ	Dilation of Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
047C341	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047C346	Dilation of Right Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047C34Z	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047C356	Dilation of Right Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C35Z	Dilation of Right Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C366	Dilation of Right Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C36Z	Dilation of Right Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C376	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C37Z	Dilation of Right Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C3D1	Dilation of Right Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047C3D6	Dilation of Right Common Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047C3DZ	Dilation of Right Common Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047C3E6	Dilation of Right Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C3EZ	Dilation of Right Common Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C3F6	Dilation of Right Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C3FZ	Dilation of Right Common Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C3G6	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047C3GZ	Dilation of Right Common Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047C3Z1	Dilation of Right Common Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047C3Z6	Dilation of Right Common Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
047C3ZZ	Dilation of Right Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
047C441	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C446	Dilation of Right Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C44Z	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C456	Dilation of Right Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C45Z	Dilation of Right Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C466	Dilation of Right Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C46Z	Dilation of Right Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C476	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C47Z	Dilation of Right Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4D1	Dilation of Right Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4D6	Dilation of Right Common Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4DZ	Dilation of Right Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4E6	Dilation of Right Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4EZ	Dilation of Right Common Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4F6	Dilation of Right Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4FZ	Dilation of Right Common Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4G6	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4GZ	Dilation of Right Common Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4Z1	Dilation of Right Common Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4Z6	Dilation of Right Common Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047C4ZZ	Dilation of Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047D041	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047D046	Dilation of Left Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047D04Z	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047D056	Dilation of Left Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D05Z	Dilation of Left Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D066	Dilation of Left Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D06Z	Dilation of Left Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D076	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D07Z	Dilation of Left Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D0D1	Dilation of Left Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047D0D6	Dilation of Left Common Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047D0DZ	Dilation of Left Common Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047D0E6	Dilation of Left Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D0EZ	Dilation of Left Common Iliac Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D0F6	Dilation of Left Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D0FZ	Dilation of Left Common Iliac Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D0G6	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D0GZ	Dilation of Left Common Iliac Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047D0Z1	Dilation of Left Common Iliac Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047D0Z6	Dilation of Left Common Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
047D0ZZ	Dilation of Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
047D341	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047D346	Dilation of Left Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047D34Z	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047D356	Dilation of Left Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D35Z	Dilation of Left Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D366	Dilation of Left Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D36Z	Dilation of Left Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D376	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D37Z	Dilation of Left Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D3D1	Dilation of Left Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047D3D6	Dilation of Left Common Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047D3DZ	Dilation of Left Common Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047D3E6	Dilation of Left Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D3EZ	Dilation of Left Common Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D3F6	Dilation of Left Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D3FZ	Dilation of Left Common Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D3G6	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D3GZ	Dilation of Left Common Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047D3Z1	Dilation of Left Common Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047D3Z6	Dilation of Left Common Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
047D3ZZ	Dilation of Left Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
047D441	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D446	Dilation of Left Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D44Z	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D456	Dilation of Left Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D45Z	Dilation of Left Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047D466	Dilation of Left Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D46Z	Dilation of Left Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D476	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D47Z	Dilation of Left Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4D1	Dilation of Left Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4D6	Dilation of Left Common Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4DZ	Dilation of Left Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4E6	Dilation of Left Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4EZ	Dilation of Left Common Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4F6	Dilation of Left Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4FZ	Dilation of Left Common Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4G6	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4GZ	Dilation of Left Common Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4Z1	Dilation of Left Common Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4Z6	Dilation of Left Common Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047D4ZZ	Dilation of Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E041	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047E046	Dilation of Right Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047E04Z	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047E056	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E05Z	Dilation of Right Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E066	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E06Z	Dilation of Right Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047E076	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E07Z	Dilation of Right Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E0D1	Dilation of Right Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047E0D6	Dilation of Right Internal Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047E0DZ	Dilation of Right Internal Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047E0E6	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E0EZ	Dilation of Right Internal Iliac Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E0F6	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E0FZ	Dilation of Right Internal Iliac Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E0G6	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E0GZ	Dilation of Right Internal Iliac Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047E0Z1	Dilation of Right Internal Iliac Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047E0Z6	Dilation of Right Internal Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
047E0ZZ	Dilation of Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
047E341	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047E346	Dilation of Right Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047E34Z	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047E356	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E35Z	Dilation of Right Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E366	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E36Z	Dilation of Right Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E376	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E37Z	Dilation of Right Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E3D1	Dilation of Right Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047E3D6	Dilation of Right Internal Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047E3DZ	Dilation of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047E3E6	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E3EZ	Dilation of Right Internal Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E3F6	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E3FZ	Dilation of Right Internal Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E3G6	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E3GZ	Dilation of Right Internal Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047E3Z1	Dilation of Right Internal Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047E3Z6	Dilation of Right Internal Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
047E3ZZ	Dilation of Right Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
047E441	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E446	Dilation of Right Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E44Z	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E456	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E45Z	Dilation of Right Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E466	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E46Z	Dilation of Right Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E476	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E47Z	Dilation of Right Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4D1	Dilation of Right Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4D6	Dilation of Right Internal Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4DZ	Dilation of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047E4E6	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4EZ	Dilation of Right Internal Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4F6	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4FZ	Dilation of Right Internal Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4G6	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4GZ	Dilation of Right Internal Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4Z1	Dilation of Right Internal Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4Z6	Dilation of Right Internal Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047E4ZZ	Dilation of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F041	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047F046	Dilation of Left Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047F04Z	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047F056	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F05Z	Dilation of Left Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F066	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F06Z	Dilation of Left Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F076	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F07Z	Dilation of Left Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F0D1	Dilation of Left Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047F0D6	Dilation of Left Internal Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047F0DZ	Dilation of Left Internal Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047F0E6	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F0EZ	Dilation of Left Internal Iliac Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047F0F6	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F0FZ	Dilation of Left Internal Iliac Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F0G6	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F0GZ	Dilation of Left Internal Iliac Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047F0Z1	Dilation of Left Internal Iliac Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047F0Z6	Dilation of Left Internal Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
047F0ZZ	Dilation of Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
047F341	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047F346	Dilation of Left Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047F34Z	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047F356	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F35Z	Dilation of Left Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F366	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F36Z	Dilation of Left Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F376	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F37Z	Dilation of Left Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F3D1	Dilation of Left Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047F3D6	Dilation of Left Internal Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047F3DZ	Dilation of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047F3E6	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F3EZ	Dilation of Left Internal Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F3F6	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F3FZ	Dilation of Left Internal Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F3G6	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047F3GZ	Dilation of Left Internal Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047F3Z1	Dilation of Left Internal Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047F3Z6	Dilation of Left Internal Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
047F3ZZ	Dilation of Left Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
047F441	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F446	Dilation of Left Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F44Z	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F456	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F45Z	Dilation of Left Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F466	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F46Z	Dilation of Left Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F476	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F47Z	Dilation of Left Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4D1	Dilation of Left Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4D6	Dilation of Left Internal Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4DZ	Dilation of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4E6	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4EZ	Dilation of Left Internal Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4F6	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4FZ	Dilation of Left Internal Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4G6	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4GZ	Dilation of Left Internal Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4Z1	Dilation of Left Internal Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047F4Z6	Dilation of Left Internal Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047F4ZZ	Dilation of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H041	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047H046	Dilation of Right External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047H04Z	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047H056	Dilation of Right External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H05Z	Dilation of Right External Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H066	Dilation of Right External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H06Z	Dilation of Right External Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H076	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H07Z	Dilation of Right External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H0D1	Dilation of Right External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047H0D6	Dilation of Right External Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047H0DZ	Dilation of Right External Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047H0E6	Dilation of Right External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H0EZ	Dilation of Right External Iliac Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H0F6	Dilation of Right External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H0FZ	Dilation of Right External Iliac Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H0G6	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H0GZ	Dilation of Right External Iliac Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047H0Z1	Dilation of Right External Iliac Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047H0Z6	Dilation of Right External Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
047H0ZZ	Dilation of Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
047H341	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047H346	Dilation of Right External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047H34Z	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047H356	Dilation of Right External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H35Z	Dilation of Right External Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H366	Dilation of Right External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H36Z	Dilation of Right External Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H376	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H37Z	Dilation of Right External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H3D1	Dilation of Right External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047H3D6	Dilation of Right External Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047H3DZ	Dilation of Right External Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047H3E6	Dilation of Right External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H3EZ	Dilation of Right External Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H3F6	Dilation of Right External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H3FZ	Dilation of Right External Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H3G6	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H3GZ	Dilation of Right External Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047H3Z1	Dilation of Right External Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047H3Z6	Dilation of Right External Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
047H3ZZ	Dilation of Right External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
047H441	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H446	Dilation of Right External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H44Z	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047H456	Dilation of Right External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H45Z	Dilation of Right External Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H466	Dilation of Right External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H46Z	Dilation of Right External Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H476	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H47Z	Dilation of Right External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4D1	Dilation of Right External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4D6	Dilation of Right External Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4DZ	Dilation of Right External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4E6	Dilation of Right External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4EZ	Dilation of Right External Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4F6	Dilation of Right External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4FZ	Dilation of Right External Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4G6	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4GZ	Dilation of Right External Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4Z1	Dilation of Right External Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4Z6	Dilation of Right External Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047H4ZZ	Dilation of Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J041	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047J046	Dilation of Left External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047J04Z	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047J056	Dilation of Left External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J05Z	Dilation of Left External Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047J066	Dilation of Left External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J06Z	Dilation of Left External Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J076	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J07Z	Dilation of Left External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J0D1	Dilation of Left External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047J0D6	Dilation of Left External Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047J0DZ	Dilation of Left External Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
047J0E6	Dilation of Left External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J0EZ	Dilation of Left External Iliac Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J0F6	Dilation of Left External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J0FZ	Dilation of Left External Iliac Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J0G6	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J0GZ	Dilation of Left External Iliac Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
047J0Z1	Dilation of Left External Iliac Artery using Drug-Coated Balloon, Open Approach	Procedure	ICD-10-PCS
047J0Z6	Dilation of Left External Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
047J0ZZ	Dilation of Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
047J341	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047J346	Dilation of Left External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047J34Z	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047J356	Dilation of Left External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J35Z	Dilation of Left External Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J366	Dilation of Left External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J36Z	Dilation of Left External Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J376	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047J37Z	Dilation of Left External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J3D1	Dilation of Left External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047J3D6	Dilation of Left External Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047J3DZ	Dilation of Left External Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
047J3E6	Dilation of Left External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J3EZ	Dilation of Left External Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J3F6	Dilation of Left External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J3FZ	Dilation of Left External Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J3G6	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J3GZ	Dilation of Left External Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
047J3Z1	Dilation of Left External Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	Procedure	ICD-10-PCS
047J3Z6	Dilation of Left External Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
047J3ZZ	Dilation of Left External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
047J441	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J446	Dilation of Left External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J44Z	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J456	Dilation of Left External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J45Z	Dilation of Left External Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J466	Dilation of Left External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J46Z	Dilation of Left External Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J476	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J47Z	Dilation of Left External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4D1	Dilation of Left External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
047J4D6	Dilation of Left External Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4DZ	Dilation of Left External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4E6	Dilation of Left External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4EZ	Dilation of Left External Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4F6	Dilation of Left External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4FZ	Dilation of Left External Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4G6	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4GZ	Dilation of Left External Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4Z1	Dilation of Left External Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4Z6	Dilation of Left External Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
047J4ZZ	Dilation of Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049000Z	Drainage of Abdominal Aorta with Drainage Device, Open Approach	Procedure	ICD-10-PCS
04900ZZ	Drainage of Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
049040Z	Drainage of Abdominal Aorta with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04904ZZ	Drainage of Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049100Z	Drainage of Celiac Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
04910ZZ	Drainage of Celiac Artery, Open Approach	Procedure	ICD-10-PCS
049140Z	Drainage of Celiac Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04914ZZ	Drainage of Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049200Z	Drainage of Gastric Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
04920ZZ	Drainage of Gastric Artery, Open Approach	Procedure	ICD-10-PCS
049240Z	Drainage of Gastric Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04924ZZ	Drainage of Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049300Z	Drainage of Hepatic Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
04930ZZ	Drainage of Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
049340Z	Drainage of Hepatic Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04934ZZ	Drainage of Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049400Z	Drainage of Splenic Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
04940ZZ	Drainage of Splenic Artery, Open Approach	Procedure	ICD-10-PCS
049440Z	Drainage of Splenic Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04944ZZ	Drainage of Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049500Z	Drainage of Superior Mesenteric Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
04950ZZ	Drainage of Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
049540Z	Drainage of Superior Mesenteric Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04954ZZ	Drainage of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049600Z	Drainage of Right Colic Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
04960ZZ	Drainage of Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
049640Z	Drainage of Right Colic Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04964ZZ	Drainage of Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049700Z	Drainage of Left Colic Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
04970ZZ	Drainage of Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
049740Z	Drainage of Left Colic Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04974ZZ	Drainage of Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049800Z	Drainage of Middle Colic Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
04980ZZ	Drainage of Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
049840Z	Drainage of Middle Colic Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04984ZZ	Drainage of Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049900Z	Drainage of Right Renal Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
04990ZZ	Drainage of Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
049940Z	Drainage of Right Renal Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04994ZZ	Drainage of Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049A00Z	Drainage of Left Renal Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
049A0ZZ	Drainage of Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
049A40Z	Drainage of Left Renal Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049A4ZZ	Drainage of Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049B00Z	Drainage of Inferior Mesenteric Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
049B0ZZ	Drainage of Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
049B40Z	Drainage of Inferior Mesenteric Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049B4ZZ	Drainage of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049C00Z	Drainage of Right Common Iliac Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
049C0ZZ	Drainage of Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
049C40Z	Drainage of Right Common Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049C4ZZ	Drainage of Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049D00Z	Drainage of Left Common Iliac Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
049D0ZZ	Drainage of Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
049D40Z	Drainage of Left Common Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
049D4ZZ	Drainage of Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049E00Z	Drainage of Right Internal Iliac Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
049E0ZZ	Drainage of Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
049E40Z	Drainage of Right Internal Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049E4ZZ	Drainage of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049F00Z	Drainage of Left Internal Iliac Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
049F0ZZ	Drainage of Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
049F40Z	Drainage of Left Internal Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049F4ZZ	Drainage of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049H00Z	Drainage of Right External Iliac Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
049H0ZZ	Drainage of Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
049H40Z	Drainage of Right External Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049H4ZZ	Drainage of Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049J00Z	Drainage of Left External Iliac Artery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
049J0ZZ	Drainage of Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
049J40Z	Drainage of Left External Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
049J4ZZ	Drainage of Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04B00ZZ	Excision of Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04B03ZZ	Excision of Abdominal Aorta, Percutaneous Approach	Procedure	ICD-10-PCS
04B04ZZ	Excision of Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04B10ZZ	Excision of Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04B13ZZ	Excision of Celiac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04B14ZZ	Excision of Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04B20ZZ	Excision of Gastric Artery, Open Approach	Procedure	ICD-10-PCS
04B23ZZ	Excision of Gastric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04B24ZZ	Excision of Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04B30ZZ	Excision of Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
04B33ZZ	Excision of Hepatic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04B34ZZ	Excision of Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04B40ZZ	Excision of Splenic Artery, Open Approach	Procedure	ICD-10-PCS
04B43ZZ	Excision of Splenic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04B44ZZ	Excision of Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04B50ZZ	Excision of Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04B53ZZ	Excision of Superior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04B54ZZ	Excision of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04B60ZZ	Excision of Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
04B63ZZ	Excision of Right Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04B64ZZ	Excision of Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04B70ZZ	Excision of Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
04B73ZZ	Excision of Left Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04B74ZZ	Excision of Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04B80ZZ	Excision of Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
04B83ZZ	Excision of Middle Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04B84ZZ	Excision of Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04B90ZZ	Excision of Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04B93ZZ	Excision of Right Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04B94ZZ	Excision of Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04BA0ZZ	Excision of Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04BA3ZZ	Excision of Left Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04BA4ZZ	Excision of Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04BB0ZZ	Excision of Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04BB3ZZ	Excision of Inferior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04BB4ZZ	Excision of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04BC0ZZ	Excision of Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04BC3ZZ	Excision of Right Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04BC4ZZ	Excision of Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04BD0ZZ	Excision of Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04BD3ZZ	Excision of Left Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04BD4ZZ	Excision of Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04BE0ZZ	Excision of Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04BE3ZZ	Excision of Right Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04BE4ZZ	Excision of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04BF0ZZ	Excision of Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04BF3ZZ	Excision of Left Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04BF4ZZ	Excision of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04BH0ZZ	Excision of Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04BH3ZZ	Excision of Right External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04BH4ZZ	Excision of Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04BJ0ZZ	Excision of Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04BJ3ZZ	Excision of Left External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04BJ4ZZ	Excision of Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C00Z6	Extirpation of Matter from Abdominal Aorta, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04C00ZZ	Extirpation of Matter from Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04C03Z6	Extirpation of Matter from Abdominal Aorta, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04C03ZZ	Extirpation of Matter from Abdominal Aorta, Percutaneous Approach	Procedure	ICD-10-PCS
04C04Z6	Extirpation of Matter from Abdominal Aorta, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C04ZZ	Extirpation of Matter from Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C10Z6	Extirpation of Matter from Celiac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04C10ZZ	Extirpation of Matter from Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04C13Z6	Extirpation of Matter from Celiac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04C13ZZ	Extirpation of Matter from Celiac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04C14Z6	Extirpation of Matter from Celiac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04C14ZZ	Extirpation of Matter from Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C20Z6	Extirpation of Matter from Gastric Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04C20ZZ	Extirpation of Matter from Gastric Artery, Open Approach	Procedure	ICD-10-PCS
04C23Z6	Extirpation of Matter from Gastric Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04C23ZZ	Extirpation of Matter from Gastric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04C24Z6	Extirpation of Matter from Gastric Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C24ZZ	Extirpation of Matter from Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C30Z6	Extirpation of Matter from Hepatic Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04C30ZZ	Extirpation of Matter from Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
04C33Z6	Extirpation of Matter from Hepatic Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04C33ZZ	Extirpation of Matter from Hepatic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04C34Z6	Extirpation of Matter from Hepatic Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C34ZZ	Extirpation of Matter from Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C40Z6	Extirpation of Matter from Splenic Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04C40ZZ	Extirpation of Matter from Splenic Artery, Open Approach	Procedure	ICD-10-PCS
04C43Z6	Extirpation of Matter from Splenic Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04C43ZZ	Extirpation of Matter from Splenic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04C44Z6	Extirpation of Matter from Splenic Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C44ZZ	Extirpation of Matter from Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C50Z6	Extirpation of Matter from Superior Mesenteric Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04C50ZZ	Extirpation of Matter from Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04C53Z6	Extirpation of Matter from Superior Mesenteric Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04C53ZZ	Extirpation of Matter from Superior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04C54Z6	Extirpation of Matter from Superior Mesenteric Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C54ZZ	Extirpation of Matter from Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C60Z6	Extirpation of Matter from Right Colic Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04C60ZZ	Extirpation of Matter from Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
04C63Z6	Extirpation of Matter from Right Colic Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04C63ZZ	Extirpation of Matter from Right Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04C64Z6	Extirpation of Matter from Right Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C64ZZ	Extirpation of Matter from Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C70Z6	Extirpation of Matter from Left Colic Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04C70ZZ	Extirpation of Matter from Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
04C73Z6	Extirpation of Matter from Left Colic Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04C73ZZ	Extirpation of Matter from Left Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04C74Z6	Extirpation of Matter from Left Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C74ZZ	Extirpation of Matter from Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C80Z6	Extirpation of Matter from Middle Colic Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04C80ZZ	Extirpation of Matter from Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
04C83Z6	Extirpation of Matter from Middle Colic Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04C83ZZ	Extirpation of Matter from Middle Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04C84Z6	Extirpation of Matter from Middle Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C84ZZ	Extirpation of Matter from Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C90Z6	Extirpation of Matter from Right Renal Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04C90ZZ	Extirpation of Matter from Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04C93Z6	Extirpation of Matter from Right Renal Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04C93ZZ	Extirpation of Matter from Right Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04C94Z6	Extirpation of Matter from Right Renal Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04C94ZZ	Extirpation of Matter from Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CA0Z6	Extirpation of Matter from Left Renal Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04CA0ZZ	Extirpation of Matter from Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04CA3Z6	Extirpation of Matter from Left Renal Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04CA3ZZ	Extirpation of Matter from Left Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04CA4Z6	Extirpation of Matter from Left Renal Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CA4ZZ	Extirpation of Matter from Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CB0Z6	Extirpation of Matter from Inferior Mesenteric Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04CB0ZZ	Extirpation of Matter from Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04CB3Z6	Extirpation of Matter from Inferior Mesenteric Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04CB3ZZ	Extirpation of Matter from Inferior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04CB4Z6	Extirpation of Matter from Inferior Mesenteric Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CB4ZZ	Extirpation of Matter from Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CC0Z6	Extirpation of Matter from Right Common Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04CC0ZZ	Extirpation of Matter from Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04CC3Z6	Extirpation of Matter from Right Common Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04CC3ZZ	Extirpation of Matter from Right Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04CC4Z6	Extirpation of Matter from Right Common Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CC4ZZ	Extirpation of Matter from Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CD0Z6	Extirpation of Matter from Left Common Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04CD0ZZ	Extirpation of Matter from Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04CD3Z6	Extirpation of Matter from Left Common Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04CD3ZZ	Extirpation of Matter from Left Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04CD4Z6	Extirpation of Matter from Left Common Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CD4ZZ	Extirpation of Matter from Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CE0Z6	Extirpation of Matter from Right Internal Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04CE0ZZ	Extirpation of Matter from Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04CE3Z6	Extirpation of Matter from Right Internal Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04CE3ZZ	Extirpation of Matter from Right Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04CE4Z6	Extirpation of Matter from Right Internal Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CE4ZZ	Extirpation of Matter from Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CF0Z6	Extirpation of Matter from Left Internal Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04CF0ZZ	Extirpation of Matter from Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04CF3Z6	Extirpation of Matter from Left Internal Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04CF3ZZ	Extirpation of Matter from Left Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04CF4Z6	Extirpation of Matter from Left Internal Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CF4ZZ	Extirpation of Matter from Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CH0Z6	Extirpation of Matter from Right External Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04CH0ZZ	Extirpation of Matter from Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04CH3Z6	Extirpation of Matter from Right External Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04CH3ZZ	Extirpation of Matter from Right External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04CH4Z6	Extirpation of Matter from Right External Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04CH4ZZ	Extirpation of Matter from Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CJ0Z6	Extirpation of Matter from Left External Iliac Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04CJ0ZZ	Extirpation of Matter from Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04CJ3Z6	Extirpation of Matter from Left External Iliac Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04CJ3ZZ	Extirpation of Matter from Left External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04CJ4Z6	Extirpation of Matter from Left External Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04CJ4ZZ	Extirpation of Matter from Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H003Z	Insertion of Infusion Device into Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04H00DZ	Insertion of Intraluminal Device into Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04H03DZ	Insertion of Intraluminal Device into Abdominal Aorta, Percutaneous Approach	Procedure	ICD-10-PCS
04H043Z	Insertion of Infusion Device into Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H04DZ	Insertion of Intraluminal Device into Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H103Z	Insertion of Infusion Device into Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04H10DZ	Insertion of Intraluminal Device into Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04H13DZ	Insertion of Intraluminal Device into Celiac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04H143Z	Insertion of Infusion Device into Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H14DZ	Insertion of Intraluminal Device into Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H203Z	Insertion of Infusion Device into Gastric Artery, Open Approach	Procedure	ICD-10-PCS
04H20DZ	Insertion of Intraluminal Device into Gastric Artery, Open Approach	Procedure	ICD-10-PCS
04H23DZ	Insertion of Intraluminal Device into Gastric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04H243Z	Insertion of Infusion Device into Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H24DZ	Insertion of Intraluminal Device into Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H303Z	Insertion of Infusion Device into Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
04H30DZ	Insertion of Intraluminal Device into Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
04H33DZ	Insertion of Intraluminal Device into Hepatic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04H343Z	Insertion of Infusion Device into Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H34DZ	Insertion of Intraluminal Device into Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H403Z	Insertion of Infusion Device into Splenic Artery, Open Approach	Procedure	ICD-10-PCS
04H40DZ	Insertion of Intraluminal Device into Splenic Artery, Open Approach	Procedure	ICD-10-PCS
04H43DZ	Insertion of Intraluminal Device into Splenic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04H443Z	Insertion of Infusion Device into Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04H44DZ	Insertion of Intraluminal Device into Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H503Z	Insertion of Infusion Device into Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04H50DZ	Insertion of Intraluminal Device into Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04H53DZ	Insertion of Intraluminal Device into Superior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04H543Z	Insertion of Infusion Device into Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H54DZ	Insertion of Intraluminal Device into Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H603Z	Insertion of Infusion Device into Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
04H60DZ	Insertion of Intraluminal Device into Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
04H63DZ	Insertion of Intraluminal Device into Right Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04H643Z	Insertion of Infusion Device into Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H64DZ	Insertion of Intraluminal Device into Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H703Z	Insertion of Infusion Device into Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
04H70DZ	Insertion of Intraluminal Device into Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
04H73DZ	Insertion of Intraluminal Device into Left Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04H743Z	Insertion of Infusion Device into Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H74DZ	Insertion of Intraluminal Device into Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H803Z	Insertion of Infusion Device into Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
04H80DZ	Insertion of Intraluminal Device into Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
04H83DZ	Insertion of Intraluminal Device into Middle Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04H843Z	Insertion of Infusion Device into Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H84DZ	Insertion of Intraluminal Device into Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H903Z	Insertion of Infusion Device into Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04H90DZ	Insertion of Intraluminal Device into Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04H93DZ	Insertion of Intraluminal Device into Right Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04H943Z	Insertion of Infusion Device into Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04H94DZ	Insertion of Intraluminal Device into Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HA03Z	Insertion of Infusion Device into Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04HA0DZ	Insertion of Intraluminal Device into Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04HA3DZ	Insertion of Intraluminal Device into Left Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04HA43Z	Insertion of Infusion Device into Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04HA4DZ	Insertion of Intraluminal Device into Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HB03Z	Insertion of Infusion Device into Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04HB0DZ	Insertion of Intraluminal Device into Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04HB3DZ	Insertion of Intraluminal Device into Inferior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04HB43Z	Insertion of Infusion Device into Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HB4DZ	Insertion of Intraluminal Device into Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HC03Z	Insertion of Infusion Device into Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HC0DZ	Insertion of Intraluminal Device into Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HC3DZ	Insertion of Intraluminal Device into Right Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04HC43Z	Insertion of Infusion Device into Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HC4DZ	Insertion of Intraluminal Device into Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HD03Z	Insertion of Infusion Device into Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HD0DZ	Insertion of Intraluminal Device into Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HD3DZ	Insertion of Intraluminal Device into Left Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04HD43Z	Insertion of Infusion Device into Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HD4DZ	Insertion of Intraluminal Device into Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HE03Z	Insertion of Infusion Device into Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HE0DZ	Insertion of Intraluminal Device into Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HE3DZ	Insertion of Intraluminal Device into Right Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04HE43Z	Insertion of Infusion Device into Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HE4DZ	Insertion of Intraluminal Device into Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HF03Z	Insertion of Infusion Device into Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HF0DZ	Insertion of Intraluminal Device into Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HF3DZ	Insertion of Intraluminal Device into Left Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04HF43Z	Insertion of Infusion Device into Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HF4DZ	Insertion of Intraluminal Device into Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HH03Z	Insertion of Infusion Device into Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HH0DZ	Insertion of Intraluminal Device into Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04HH3DZ	Insertion of Intraluminal Device into Right External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04HH43Z	Insertion of Infusion Device into Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HH4DZ	Insertion of Intraluminal Device into Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HJ03Z	Insertion of Infusion Device into Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HJ0DZ	Insertion of Intraluminal Device into Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04HJ3DZ	Insertion of Intraluminal Device into Left External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04HJ43Z	Insertion of Infusion Device into Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04HJ4DZ	Insertion of Intraluminal Device into Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L00CZ	Occlusion of Abdominal Aorta with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L00DJ	Occlusion of Abdominal Aorta with Intraluminal Device, Temporary, Open Approach	Procedure	ICD-10-PCS
04L00DZ	Occlusion of Abdominal Aorta with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L00ZZ	Occlusion of Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04L03CZ	Occlusion of Abdominal Aorta with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L03DZ	Occlusion of Abdominal Aorta with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L03ZZ	Occlusion of Abdominal Aorta, Percutaneous Approach	Procedure	ICD-10-PCS
04L04CZ	Occlusion of Abdominal Aorta with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L04DZ	Occlusion of Abdominal Aorta with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L04ZZ	Occlusion of Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L10CZ	Occlusion of Celiac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L10DZ	Occlusion of Celiac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L10ZZ	Occlusion of Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04L13CZ	Occlusion of Celiac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L13DZ	Occlusion of Celiac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L13ZZ	Occlusion of Celiac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04L14CZ	Occlusion of Celiac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L14DZ	Occlusion of Celiac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L14ZZ	Occlusion of Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L20CZ	Occlusion of Gastric Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L20DZ	Occlusion of Gastric Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L20ZZ	Occlusion of Gastric Artery, Open Approach	Procedure	ICD-10-PCS
04L23CZ	Occlusion of Gastric Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L23DZ	Occlusion of Gastric Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L23ZZ	Occlusion of Gastric Artery, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04L24CZ	Occlusion of Gastric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L24DZ	Occlusion of Gastric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L24ZZ	Occlusion of Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L30CZ	Occlusion of Hepatic Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L30DZ	Occlusion of Hepatic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L30ZZ	Occlusion of Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
04L33CZ	Occlusion of Hepatic Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L33DZ	Occlusion of Hepatic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L33ZZ	Occlusion of Hepatic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04L34CZ	Occlusion of Hepatic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L34DZ	Occlusion of Hepatic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L34ZZ	Occlusion of Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L40CZ	Occlusion of Splenic Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L40DZ	Occlusion of Splenic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L40ZZ	Occlusion of Splenic Artery, Open Approach	Procedure	ICD-10-PCS
04L43CZ	Occlusion of Splenic Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L43DZ	Occlusion of Splenic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L43ZZ	Occlusion of Splenic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04L44CZ	Occlusion of Splenic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L44DZ	Occlusion of Splenic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L44ZZ	Occlusion of Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L50CZ	Occlusion of Superior Mesenteric Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L50DZ	Occlusion of Superior Mesenteric Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L50ZZ	Occlusion of Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04L53CZ	Occlusion of Superior Mesenteric Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L53DZ	Occlusion of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L53ZZ	Occlusion of Superior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04L54CZ	Occlusion of Superior Mesenteric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L54DZ	Occlusion of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L54ZZ	Occlusion of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L60CZ	Occlusion of Right Colic Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L60DZ	Occlusion of Right Colic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L60ZZ	Occlusion of Right Colic Artery, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04L63CZ	Occlusion of Right Colic Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L63DZ	Occlusion of Right Colic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L63ZZ	Occlusion of Right Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04L64CZ	Occlusion of Right Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L64DZ	Occlusion of Right Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L64ZZ	Occlusion of Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L70CZ	Occlusion of Left Colic Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L70DZ	Occlusion of Left Colic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L70ZZ	Occlusion of Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
04L73CZ	Occlusion of Left Colic Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L73DZ	Occlusion of Left Colic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L73ZZ	Occlusion of Left Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04L74CZ	Occlusion of Left Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L74DZ	Occlusion of Left Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L74ZZ	Occlusion of Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L80CZ	Occlusion of Middle Colic Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L80DZ	Occlusion of Middle Colic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L80ZZ	Occlusion of Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
04L83CZ	Occlusion of Middle Colic Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L83DZ	Occlusion of Middle Colic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L83ZZ	Occlusion of Middle Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04L84CZ	Occlusion of Middle Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L84DZ	Occlusion of Middle Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L84ZZ	Occlusion of Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L90CZ	Occlusion of Right Renal Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L90DZ	Occlusion of Right Renal Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04L90ZZ	Occlusion of Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04L93CZ	Occlusion of Right Renal Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L93DZ	Occlusion of Right Renal Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04L93ZZ	Occlusion of Right Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04L94CZ	Occlusion of Right Renal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04L94DZ	Occlusion of Right Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04L94ZZ	Occlusion of Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LA0CZ	Occlusion of Left Renal Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LA0DZ	Occlusion of Left Renal Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LA0ZZ	Occlusion of Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04LA3CZ	Occlusion of Left Renal Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LA3DZ	Occlusion of Left Renal Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LA3ZZ	Occlusion of Left Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04LA4CZ	Occlusion of Left Renal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LA4DZ	Occlusion of Left Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LA4ZZ	Occlusion of Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LB0CZ	Occlusion of Inferior Mesenteric Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LB0DZ	Occlusion of Inferior Mesenteric Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LB0ZZ	Occlusion of Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04LB3CZ	Occlusion of Inferior Mesenteric Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LB3DZ	Occlusion of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LB3ZZ	Occlusion of Inferior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04LB4CZ	Occlusion of Inferior Mesenteric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LB4DZ	Occlusion of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LB4ZZ	Occlusion of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LC0CZ	Occlusion of Right Common Iliac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LC0DZ	Occlusion of Right Common Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LC0ZZ	Occlusion of Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04LC3CZ	Occlusion of Right Common Iliac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LC3DZ	Occlusion of Right Common Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LC3ZZ	Occlusion of Right Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04LC4CZ	Occlusion of Right Common Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LC4DZ	Occlusion of Right Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LC4ZZ	Occlusion of Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LD0CZ	Occlusion of Left Common Iliac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04LD0DZ	Occlusion of Left Common Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LD0ZZ	Occlusion of Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04LD3CZ	Occlusion of Left Common Iliac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LD3DZ	Occlusion of Left Common Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LD3ZZ	Occlusion of Left Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04LD4CZ	Occlusion of Left Common Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LD4DZ	Occlusion of Left Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LD4ZZ	Occlusion of Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LH0CZ	Occlusion of Right External Iliac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LH0DZ	Occlusion of Right External Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LH0ZZ	Occlusion of Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04LH3CZ	Occlusion of Right External Iliac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LH3DZ	Occlusion of Right External Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LH3ZZ	Occlusion of Right External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04LH4CZ	Occlusion of Right External Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LH4DZ	Occlusion of Right External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LH4ZZ	Occlusion of Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LJ0CZ	Occlusion of Left External Iliac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LJ0DZ	Occlusion of Left External Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04LJ0ZZ	Occlusion of Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04LJ3CZ	Occlusion of Left External Iliac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LJ3DZ	Occlusion of Left External Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04LJ3ZZ	Occlusion of Left External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04LJ4CZ	Occlusion of Left External Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LJ4DZ	Occlusion of Left External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04LJ4ZZ	Occlusion of Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04N00ZZ	Release Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04N03ZZ	Release Abdominal Aorta, Percutaneous Approach	Procedure	ICD-10-PCS
04N04ZZ	Release Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04N10ZZ	Release Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04N13ZZ	Release Celiac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04N14ZZ	Release Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04N20ZZ	Release Gastric Artery, Open Approach	Procedure	ICD-10-PCS
04N23ZZ	Release Gastric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04N24ZZ	Release Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04N30ZZ	Release Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
04N33ZZ	Release Hepatic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04N34ZZ	Release Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04N40ZZ	Release Splenic Artery, Open Approach	Procedure	ICD-10-PCS
04N43ZZ	Release Splenic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04N44ZZ	Release Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04N50ZZ	Release Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04N53ZZ	Release Superior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04N54ZZ	Release Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04N60ZZ	Release Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
04N63ZZ	Release Right Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04N64ZZ	Release Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04N70ZZ	Release Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
04N73ZZ	Release Left Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04N74ZZ	Release Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04N80ZZ	Release Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
04N83ZZ	Release Middle Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04N84ZZ	Release Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04N90ZZ	Release Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04N93ZZ	Release Right Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04N94ZZ	Release Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04NA0ZZ	Release Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04NA3ZZ	Release Left Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04NA4ZZ	Release Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04NB0ZZ	Release Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04NB3ZZ	Release Inferior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04NB4ZZ	Release Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04NC0ZZ	Release Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04NC3ZZ	Release Right Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04NC4ZZ	Release Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04ND0ZZ	Release Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04ND3ZZ	Release Left Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04ND4ZZ	Release Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04NE0ZZ	Release Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04NE3ZZ	Release Right Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04NE4ZZ	Release Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04NF0ZZ	Release Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04NF3ZZ	Release Left Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04NF4ZZ	Release Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04NH0ZZ	Release Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04NH3ZZ	Release Right External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04NH4ZZ	Release Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04NJ0ZZ	Release Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04NJ3ZZ	Release Left External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04NJ4ZZ	Release Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04Q00ZZ	Repair Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04Q03ZZ	Repair Abdominal Aorta, Percutaneous Approach	Procedure	ICD-10-PCS
04Q04ZZ	Repair Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04Q10ZZ	Repair Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04Q13ZZ	Repair Celiac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04Q14ZZ	Repair Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04Q20ZZ	Repair Gastric Artery, Open Approach	Procedure	ICD-10-PCS
04Q23ZZ	Repair Gastric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04Q24ZZ	Repair Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04Q30ZZ	Repair Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
04Q33ZZ	Repair Hepatic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04Q34ZZ	Repair Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04Q40ZZ	Repair Splenic Artery, Open Approach	Procedure	ICD-10-PCS
04Q43ZZ	Repair Splenic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04Q44ZZ	Repair Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04Q50ZZ	Repair Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04Q53ZZ	Repair Superior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04Q54ZZ	Repair Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04Q60ZZ	Repair Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
04Q63ZZ	Repair Right Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04Q64ZZ	Repair Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04Q70ZZ	Repair Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
04Q73ZZ	Repair Left Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04Q74ZZ	Repair Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04Q80ZZ	Repair Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
04Q83ZZ	Repair Middle Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04Q84ZZ	Repair Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04Q90ZZ	Repair Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04Q93ZZ	Repair Right Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04Q94ZZ	Repair Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04QA0ZZ	Repair Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04QA3ZZ	Repair Left Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04QA4ZZ	Repair Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04QB0ZZ	Repair Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04QB3ZZ	Repair Inferior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04QB4ZZ	Repair Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04QC0ZZ	Repair Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04QC3ZZ	Repair Right Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04QC4ZZ	Repair Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04QD0ZZ	Repair Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04QD3ZZ	Repair Left Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04QD4ZZ	Repair Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04QE0ZZ	Repair Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04QE3ZZ	Repair Right Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04QE4ZZ	Repair Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04QF0ZZ	Repair Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04QF3ZZ	Repair Left Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04QF4ZZ	Repair Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04QH0ZZ	Repair Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04QH3ZZ	Repair Right External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04QH4ZZ	Repair Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04QJ0ZZ	Repair Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04QJ3ZZ	Repair Left External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04QJ4ZZ	Repair Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R007Z	Replacement of Abdominal Aorta with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R00JZ	Replacement of Abdominal Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04R00KZ	Replacement of Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R047Z	Replacement of Abdominal Aorta with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R04JZ	Replacement of Abdominal Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R04KZ	Replacement of Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R107Z	Replacement of Celiac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R10JZ	Replacement of Celiac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04R10KZ	Replacement of Celiac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R147Z	Replacement of Celiac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R14JZ	Replacement of Celiac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R14KZ	Replacement of Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R207Z	Replacement of Gastric Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R20JZ	Replacement of Gastric Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04R20KZ	Replacement of Gastric Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R247Z	Replacement of Gastric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R24JZ	Replacement of Gastric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R24KZ	Replacement of Gastric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04R307Z	Replacement of Hepatic Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R30JZ	Replacement of Hepatic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04R30KZ	Replacement of Hepatic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R347Z	Replacement of Hepatic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R34JZ	Replacement of Hepatic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R34KZ	Replacement of Hepatic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R407Z	Replacement of Splenic Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R40JZ	Replacement of Splenic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04R40KZ	Replacement of Splenic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R447Z	Replacement of Splenic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R44JZ	Replacement of Splenic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R44KZ	Replacement of Splenic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R507Z	Replacement of Superior Mesenteric Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R50JZ	Replacement of Superior Mesenteric Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04R50KZ	Replacement of Superior Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R547Z	Replacement of Superior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R54JZ	Replacement of Superior Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R54KZ	Replacement of Superior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R607Z	Replacement of Right Colic Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R60JZ	Replacement of Right Colic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04R60KZ	Replacement of Right Colic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R647Z	Replacement of Right Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R64JZ	Replacement of Right Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R64KZ	Replacement of Right Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04R707Z	Replacement of Left Colic Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R70JZ	Replacement of Left Colic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04R70KZ	Replacement of Left Colic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R747Z	Replacement of Left Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R74JZ	Replacement of Left Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R74KZ	Replacement of Left Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R807Z	Replacement of Middle Colic Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R80JZ	Replacement of Middle Colic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04R80KZ	Replacement of Middle Colic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R847Z	Replacement of Middle Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R84JZ	Replacement of Middle Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R84KZ	Replacement of Middle Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R907Z	Replacement of Right Renal Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R90JZ	Replacement of Right Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04R90KZ	Replacement of Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04R947Z	Replacement of Right Renal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R94JZ	Replacement of Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04R94KZ	Replacement of Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RA07Z	Replacement of Left Renal Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RA0JZ	Replacement of Left Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04RA0KZ	Replacement of Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RA47Z	Replacement of Left Renal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RA4JZ	Replacement of Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RA4KZ	Replacement of Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04RB07Z	Replacement of Inferior Mesenteric Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RB0JZ	Replacement of Inferior Mesenteric Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04RB0KZ	Replacement of Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RB47Z	Replacement of Inferior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RB4JZ	Replacement of Inferior Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RB4KZ	Replacement of Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RC07Z	Replacement of Right Common Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RC0JZ	Replacement of Right Common Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04RC0KZ	Replacement of Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RC47Z	Replacement of Right Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RC4JZ	Replacement of Right Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RC4KZ	Replacement of Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RD07Z	Replacement of Left Common Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RD0JZ	Replacement of Left Common Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04RD0KZ	Replacement of Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RD47Z	Replacement of Left Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RD4JZ	Replacement of Left Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RD4KZ	Replacement of Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RE07Z	Replacement of Right Internal Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RE0JZ	Replacement of Right Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04RE0KZ	Replacement of Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RE47Z	Replacement of Right Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04RE4JZ	Replacement of Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RE4KZ	Replacement of Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RF07Z	Replacement of Left Internal Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RF0JZ	Replacement of Left Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04RF0KZ	Replacement of Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RF47Z	Replacement of Left Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RF4JZ	Replacement of Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RF4KZ	Replacement of Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RH07Z	Replacement of Right External Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RH0JZ	Replacement of Right External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04RH0KZ	Replacement of Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RH47Z	Replacement of Right External Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RH4JZ	Replacement of Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RH4KZ	Replacement of Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RJ07Z	Replacement of Left External Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RJ0JZ	Replacement of Left External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04RJ0KZ	Replacement of Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04RJ47Z	Replacement of Left External Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RJ4JZ	Replacement of Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04RJ4KZ	Replacement of Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04S00ZZ	Reposition Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04S03ZZ	Reposition Abdominal Aorta, Percutaneous Approach	Procedure	ICD-10-PCS
04S04ZZ	Reposition Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04S10ZZ	Reposition Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04S13ZZ	Reposition Celiac Artery, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04S14ZZ	Reposition Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04S20ZZ	Reposition Gastric Artery, Open Approach	Procedure	ICD-10-PCS
04S23ZZ	Reposition Gastric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04S24ZZ	Reposition Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04S30ZZ	Reposition Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
04S33ZZ	Reposition Hepatic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04S34ZZ	Reposition Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04S40ZZ	Reposition Splenic Artery, Open Approach	Procedure	ICD-10-PCS
04S43ZZ	Reposition Splenic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04S44ZZ	Reposition Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04S50ZZ	Reposition Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04S53ZZ	Reposition Superior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04S54ZZ	Reposition Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04S60ZZ	Reposition Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
04S63ZZ	Reposition Right Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04S64ZZ	Reposition Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04S70ZZ	Reposition Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
04S73ZZ	Reposition Left Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04S74ZZ	Reposition Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04S80ZZ	Reposition Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
04S83ZZ	Reposition Middle Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04S84ZZ	Reposition Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04S90ZZ	Reposition Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04S93ZZ	Reposition Right Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04S94ZZ	Reposition Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04SA0ZZ	Reposition Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04SA3ZZ	Reposition Left Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04SA4ZZ	Reposition Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04SB0ZZ	Reposition Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04SB3ZZ	Reposition Inferior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04SB4ZZ	Reposition Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04SC0ZZ	Reposition Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04SC3ZZ	Reposition Right Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04SC4ZZ	Reposition Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04SD0ZZ	Reposition Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04SD3ZZ	Reposition Left Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04SD4ZZ	Reposition Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04SE0ZZ	Reposition Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04SE3ZZ	Reposition Right Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04SE4ZZ	Reposition Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04SF0ZZ	Reposition Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04SF3ZZ	Reposition Left Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04SF4ZZ	Reposition Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04SH0ZZ	Reposition Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04SH3ZZ	Reposition Right External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04SH4ZZ	Reposition Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04SJ0ZZ	Reposition Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04SJ3ZZ	Reposition Left External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04SJ4ZZ	Reposition Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U007Z	Supplement Abdominal Aorta with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U00JZ	Supplement Abdominal Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04U00KZ	Supplement Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U037Z	Supplement Abdominal Aorta with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U03JZ	Supplement Abdominal Aorta with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U03KZ	Supplement Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U047Z	Supplement Abdominal Aorta with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U04JZ	Supplement Abdominal Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U04KZ	Supplement Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U107Z	Supplement Celiac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U10JZ	Supplement Celiac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04U10KZ	Supplement Celiac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U137Z	Supplement Celiac Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U13JZ	Supplement Celiac Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U13KZ	Supplement Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U147Z	Supplement Celiac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U14JZ	Supplement Celiac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U14KZ	Supplement Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U207Z	Supplement Gastric Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U20JZ	Supplement Gastric Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04U20KZ	Supplement Gastric Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U237Z	Supplement Gastric Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U23JZ	Supplement Gastric Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U23KZ	Supplement Gastric Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04U247Z	Supplement Gastric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U24JZ	Supplement Gastric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U24KZ	Supplement Gastric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U307Z	Supplement Hepatic Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U30JZ	Supplement Hepatic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04U30KZ	Supplement Hepatic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U337Z	Supplement Hepatic Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U33JZ	Supplement Hepatic Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U33KZ	Supplement Hepatic Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U347Z	Supplement Hepatic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U34JZ	Supplement Hepatic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U34KZ	Supplement Hepatic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U407Z	Supplement Splenic Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U40JZ	Supplement Splenic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04U40KZ	Supplement Splenic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U437Z	Supplement Splenic Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U43JZ	Supplement Splenic Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U43KZ	Supplement Splenic Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U447Z	Supplement Splenic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U44JZ	Supplement Splenic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U44KZ	Supplement Splenic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U507Z	Supplement Superior Mesenteric Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U50JZ	Supplement Superior Mesenteric Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04U50KZ	Supplement Superior Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U537Z	Supplement Superior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04U53JZ	Supplement Superior Mesenteric Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U53KZ	Supplement Superior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U547Z	Supplement Superior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U54JZ	Supplement Superior Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U54KZ	Supplement Superior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U607Z	Supplement Right Colic Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U60JZ	Supplement Right Colic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04U60KZ	Supplement Right Colic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U637Z	Supplement Right Colic Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U63JZ	Supplement Right Colic Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U63KZ	Supplement Right Colic Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U647Z	Supplement Right Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U64JZ	Supplement Right Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U64KZ	Supplement Right Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U707Z	Supplement Left Colic Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U70JZ	Supplement Left Colic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04U70KZ	Supplement Left Colic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U737Z	Supplement Left Colic Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U73JZ	Supplement Left Colic Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U73KZ	Supplement Left Colic Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U747Z	Supplement Left Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U74JZ	Supplement Left Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U74KZ	Supplement Left Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U807Z	Supplement Middle Colic Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04U80JZ	Supplement Middle Colic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04U80KZ	Supplement Middle Colic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U837Z	Supplement Middle Colic Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U83JZ	Supplement Middle Colic Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U83KZ	Supplement Middle Colic Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U847Z	Supplement Middle Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U84JZ	Supplement Middle Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U84KZ	Supplement Middle Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U907Z	Supplement Right Renal Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U90JZ	Supplement Right Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04U90KZ	Supplement Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04U937Z	Supplement Right Renal Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U93JZ	Supplement Right Renal Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U93KZ	Supplement Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04U947Z	Supplement Right Renal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U94JZ	Supplement Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04U94KZ	Supplement Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UA07Z	Supplement Left Renal Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UA0JZ	Supplement Left Renal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04UA0KZ	Supplement Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UA37Z	Supplement Left Renal Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UA3JZ	Supplement Left Renal Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UA3KZ	Supplement Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UA47Z	Supplement Left Renal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04UA4JZ	Supplement Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UA4KZ	Supplement Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UB07Z	Supplement Inferior Mesenteric Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UB0JZ	Supplement Inferior Mesenteric Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04UB0KZ	Supplement Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UB37Z	Supplement Inferior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UB3JZ	Supplement Inferior Mesenteric Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UB3KZ	Supplement Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UB47Z	Supplement Inferior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UB4JZ	Supplement Inferior Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UB4KZ	Supplement Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UC07Z	Supplement Right Common Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UC0JZ	Supplement Right Common Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04UC0KZ	Supplement Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UC37Z	Supplement Right Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UC3JZ	Supplement Right Common Iliac Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UC3KZ	Supplement Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UC47Z	Supplement Right Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UC4JZ	Supplement Right Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UC4KZ	Supplement Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UD07Z	Supplement Left Common Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UD0JZ	Supplement Left Common Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04UD0KZ	Supplement Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04UD37Z	Supplement Left Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UD3JZ	Supplement Left Common Iliac Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UD3KZ	Supplement Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UD47Z	Supplement Left Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UD4JZ	Supplement Left Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UD4KZ	Supplement Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UE07Z	Supplement Right Internal Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UE0JZ	Supplement Right Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04UE0KZ	Supplement Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UE37Z	Supplement Right Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UE3JZ	Supplement Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UE3KZ	Supplement Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UE47Z	Supplement Right Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UE4JZ	Supplement Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UE4KZ	Supplement Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UF07Z	Supplement Left Internal Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UF0JZ	Supplement Left Internal Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04UF0KZ	Supplement Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UF37Z	Supplement Left Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UF3JZ	Supplement Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UF3KZ	Supplement Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UF47Z	Supplement Left Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UF4JZ	Supplement Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04UF4KZ	Supplement Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UH07Z	Supplement Right External Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UH0JZ	Supplement Right External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04UH0KZ	Supplement Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UH37Z	Supplement Right External Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UH3JZ	Supplement Right External Iliac Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UH3KZ	Supplement Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UH47Z	Supplement Right External Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UH4JZ	Supplement Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UH4KZ	Supplement Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UJ07Z	Supplement Left External Iliac Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UJ0JZ	Supplement Left External Iliac Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
04UJ0KZ	Supplement Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
04UJ37Z	Supplement Left External Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UJ3JZ	Supplement Left External Iliac Artery with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UJ3KZ	Supplement Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
04UJ47Z	Supplement Left External Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UJ4JZ	Supplement Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04UJ4KZ	Supplement Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V00C6	Restriction of Abdominal Aorta, Bifurcation, with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V00CZ	Restriction of Abdominal Aorta with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V00D6	Restriction of Abdominal Aorta, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V00DJ	Restriction of Abdominal Aorta with Intraluminal Device, Temporary, Open Approach	Procedure	ICD-10-PCS
04V00DZ	Restriction of Abdominal Aorta with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04V00E6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Open Approach	Procedure	ICD-10-PCS
04V00EZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Open Approach	Procedure	ICD-10-PCS
04V00F6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Open Approach	Procedure	ICD-10-PCS
04V00FZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Open Approach	Procedure	ICD-10-PCS
04V00Z6	Restriction of Abdominal Aorta, Bifurcation, Open Approach	Procedure	ICD-10-PCS
04V00ZZ	Restriction of Abdominal Aorta, Open Approach	Procedure	ICD-10-PCS
04V03C6	Restriction of Abdominal Aorta, Bifurcation, with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V03CZ	Restriction of Abdominal Aorta with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V03D6	Restriction of Abdominal Aorta, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V03DZ	Restriction of Abdominal Aorta with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V03E6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
04V03EZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
04V03F6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
04V03FZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
04V03Z6	Restriction of Abdominal Aorta, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
04V03ZZ	Restriction of Abdominal Aorta, Percutaneous Approach	Procedure	ICD-10-PCS
04V04C6	Restriction of Abdominal Aorta, Bifurcation, with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V04CZ	Restriction of Abdominal Aorta with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V04D6	Restriction of Abdominal Aorta, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V04DJ	Restriction of Abdominal Aorta with Intraluminal Device, Temporary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V04DZ	Restriction of Abdominal Aorta with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V04E6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V04EZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V04F6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04V04FZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V04Z6	Restriction of Abdominal Aorta, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V04ZZ	Restriction of Abdominal Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V10CZ	Restriction of Celiac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V10DZ	Restriction of Celiac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V10ZZ	Restriction of Celiac Artery, Open Approach	Procedure	ICD-10-PCS
04V13CZ	Restriction of Celiac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V13DZ	Restriction of Celiac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V13ZZ	Restriction of Celiac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04V14CZ	Restriction of Celiac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V14DZ	Restriction of Celiac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V14ZZ	Restriction of Celiac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V20CZ	Restriction of Gastric Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V20DZ	Restriction of Gastric Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V20ZZ	Restriction of Gastric Artery, Open Approach	Procedure	ICD-10-PCS
04V23CZ	Restriction of Gastric Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V23DZ	Restriction of Gastric Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V23ZZ	Restriction of Gastric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04V24CZ	Restriction of Gastric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V24DZ	Restriction of Gastric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V24ZZ	Restriction of Gastric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V30CZ	Restriction of Hepatic Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V30DZ	Restriction of Hepatic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V30ZZ	Restriction of Hepatic Artery, Open Approach	Procedure	ICD-10-PCS
04V33CZ	Restriction of Hepatic Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V33DZ	Restriction of Hepatic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V33ZZ	Restriction of Hepatic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04V34CZ	Restriction of Hepatic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V34DZ	Restriction of Hepatic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V34ZZ	Restriction of Hepatic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V40CZ	Restriction of Splenic Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V40DZ	Restriction of Splenic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V40ZZ	Restriction of Splenic Artery, Open Approach	Procedure	ICD-10-PCS
04V43CZ	Restriction of Splenic Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V43DZ	Restriction of Splenic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V43ZZ	Restriction of Splenic Artery, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04V44CZ	Restriction of Splenic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V44DZ	Restriction of Splenic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V44ZZ	Restriction of Splenic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V50CZ	Restriction of Superior Mesenteric Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V50DZ	Restriction of Superior Mesenteric Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V50ZZ	Restriction of Superior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS
04V53CZ	Restriction of Superior Mesenteric Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V53DZ	Restriction of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V53ZZ	Restriction of Superior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04V54CZ	Restriction of Superior Mesenteric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V54DZ	Restriction of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V54ZZ	Restriction of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V60CZ	Restriction of Right Colic Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V60DZ	Restriction of Right Colic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V60ZZ	Restriction of Right Colic Artery, Open Approach	Procedure	ICD-10-PCS
04V63CZ	Restriction of Right Colic Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V63DZ	Restriction of Right Colic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V63ZZ	Restriction of Right Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04V64CZ	Restriction of Right Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V64DZ	Restriction of Right Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V64ZZ	Restriction of Right Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V70CZ	Restriction of Left Colic Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V70DZ	Restriction of Left Colic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V70ZZ	Restriction of Left Colic Artery, Open Approach	Procedure	ICD-10-PCS
04V73CZ	Restriction of Left Colic Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V73DZ	Restriction of Left Colic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V73ZZ	Restriction of Left Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04V74CZ	Restriction of Left Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V74DZ	Restriction of Left Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V74ZZ	Restriction of Left Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04V80CZ	Restriction of Middle Colic Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V80DZ	Restriction of Middle Colic Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V80ZZ	Restriction of Middle Colic Artery, Open Approach	Procedure	ICD-10-PCS
04V83CZ	Restriction of Middle Colic Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V83DZ	Restriction of Middle Colic Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V83ZZ	Restriction of Middle Colic Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04V84CZ	Restriction of Middle Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V84DZ	Restriction of Middle Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V84ZZ	Restriction of Middle Colic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V90CZ	Restriction of Right Renal Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V90DZ	Restriction of Right Renal Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04V90ZZ	Restriction of Right Renal Artery, Open Approach	Procedure	ICD-10-PCS
04V93CZ	Restriction of Right Renal Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V93DZ	Restriction of Right Renal Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04V93ZZ	Restriction of Right Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04V94CZ	Restriction of Right Renal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V94DZ	Restriction of Right Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04V94ZZ	Restriction of Right Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VA0CZ	Restriction of Left Renal Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VA0DZ	Restriction of Left Renal Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VA0ZZ	Restriction of Left Renal Artery, Open Approach	Procedure	ICD-10-PCS
04VA3CZ	Restriction of Left Renal Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VA3DZ	Restriction of Left Renal Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VA3ZZ	Restriction of Left Renal Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04VA4CZ	Restriction of Left Renal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VA4DZ	Restriction of Left Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VA4ZZ	Restriction of Left Renal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VB0CZ	Restriction of Inferior Mesenteric Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VB0DZ	Restriction of Inferior Mesenteric Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VB0ZZ	Restriction of Inferior Mesenteric Artery, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04VB3CZ	Restriction of Inferior Mesenteric Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VB3DZ	Restriction of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VB3ZZ	Restriction of Inferior Mesenteric Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04VB4CZ	Restriction of Inferior Mesenteric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VB4DZ	Restriction of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VB4ZZ	Restriction of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VC0CZ	Restriction of Right Common Iliac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VC0DZ	Restriction of Right Common Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VC0EZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Open Approach	Procedure	ICD-10-PCS
04VC0FZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Open Approach	Procedure	ICD-10-PCS
04VC0ZZ	Restriction of Right Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04VC3CZ	Restriction of Right Common Iliac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VC3DZ	Restriction of Right Common Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VC3EZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
04VC3FZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
04VC3ZZ	Restriction of Right Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04VC4CZ	Restriction of Right Common Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VC4DZ	Restriction of Right Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VC4EZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VC4FZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VC4ZZ	Restriction of Right Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VD0CZ	Restriction of Left Common Iliac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VD0DZ	Restriction of Left Common Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VD0EZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04VD0FZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Open Approach	Procedure	ICD-10-PCS
04VD0ZZ	Restriction of Left Common Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04VD3CZ	Restriction of Left Common Iliac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VD3DZ	Restriction of Left Common Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VD3EZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
04VD3FZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
04VD3ZZ	Restriction of Left Common Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04VD4CZ	Restriction of Left Common Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VD4DZ	Restriction of Left Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VD4EZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VD4FZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VD4ZZ	Restriction of Left Common Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VE0CZ	Restriction of Right Internal Iliac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VE0DZ	Restriction of Right Internal Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VE0ZZ	Restriction of Right Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04VE3CZ	Restriction of Right Internal Iliac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VE3DZ	Restriction of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VE3ZZ	Restriction of Right Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04VE4CZ	Restriction of Right Internal Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VE4DZ	Restriction of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VE4ZZ	Restriction of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VF0CZ	Restriction of Left Internal Iliac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VF0DZ	Restriction of Left Internal Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VF0ZZ	Restriction of Left Internal Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04VF3CZ	Restriction of Left Internal Iliac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VF3DZ	Restriction of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VF3ZZ	Restriction of Left Internal Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
04VF4CZ	Restriction of Left Internal Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VF4DZ	Restriction of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VF4ZZ	Restriction of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VH0CZ	Restriction of Right External Iliac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VH0DZ	Restriction of Right External Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VH0ZZ	Restriction of Right External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04VH3CZ	Restriction of Right External Iliac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VH3DZ	Restriction of Right External Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VH3ZZ	Restriction of Right External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04VH4CZ	Restriction of Right External Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VH4DZ	Restriction of Right External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VH4ZZ	Restriction of Right External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VJ0CZ	Restriction of Left External Iliac Artery with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VJ0DZ	Restriction of Left External Iliac Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
04VJ0ZZ	Restriction of Left External Iliac Artery, Open Approach	Procedure	ICD-10-PCS
04VJ3CZ	Restriction of Left External Iliac Artery with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VJ3DZ	Restriction of Left External Iliac Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
04VJ3ZZ	Restriction of Left External Iliac Artery, Percutaneous Approach	Procedure	ICD-10-PCS
04VJ4CZ	Restriction of Left External Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VJ4DZ	Restriction of Left External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
04VJ4ZZ	Restriction of Left External Iliac Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0610075	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0610076	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061007P	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061007Q	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061007R	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061007Y	Bypass Inferior Vena Cava to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0610095	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0610096	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061009P	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061009Q	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061009R	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061009Y	Bypass Inferior Vena Cava to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
06100A5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06100A6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06100AP	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06100AQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06100AR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06100AY	Bypass Inferior Vena Cava to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06100J5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06100J6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06100JP	Bypass Inferior Vena Cava to Pulmonary Trunk with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06100JQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06100JR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06100JY	Bypass Inferior Vena Cava to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06100K5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06100K6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06100KP	Bypass Inferior Vena Cava to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06100KQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06100KR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06100KY	Bypass Inferior Vena Cava to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06100Z5	Bypass Inferior Vena Cava to Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06100Z6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06100ZP	Bypass Inferior Vena Cava to Pulmonary Trunk, Open Approach	Procedure	ICD-10-PCS
06100ZQ	Bypass Inferior Vena Cava to Right Pulmonary Artery, Open Approach	Procedure	ICD-10-PCS
06100ZR	Bypass Inferior Vena Cava to Left Pulmonary Artery, Open Approach	Procedure	ICD-10-PCS
06100ZY	Bypass Inferior Vena Cava to Lower Vein, Open Approach	Procedure	ICD-10-PCS
0610475	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0610476	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061047P	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061047Q	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061047R	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061047Y	Bypass Inferior Vena Cava to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0610495	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0610496	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061049P	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061049Q	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061049R	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061049Y	Bypass Inferior Vena Cava to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104A5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104A6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104AP	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104AQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104AR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06104AY	Bypass Inferior Vena Cava to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104J5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104J6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104JP	Bypass Inferior Vena Cava to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104JQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104JR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104JY	Bypass Inferior Vena Cava to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104K5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104K6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104KP	Bypass Inferior Vena Cava to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104KQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104KR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104KY	Bypass Inferior Vena Cava to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104Z5	Bypass Inferior Vena Cava to Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104Z6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104ZP	Bypass Inferior Vena Cava to Pulmonary Trunk, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104ZQ	Bypass Inferior Vena Cava to Right Pulmonary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104ZR	Bypass Inferior Vena Cava to Left Pulmonary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06104ZY	Bypass Inferior Vena Cava to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0611079	Bypass Splenic Vein to Right Renal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061107B	Bypass Splenic Vein to Left Renal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061107Y	Bypass Splenic Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0611099	Bypass Splenic Vein to Right Renal Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
061109B	Bypass Splenic Vein to Left Renal Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061109Y	Bypass Splenic Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
06110A9	Bypass Splenic Vein to Right Renal Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06110AB	Bypass Splenic Vein to Left Renal Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06110AY	Bypass Splenic Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06110J9	Bypass Splenic Vein to Right Renal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06110JB	Bypass Splenic Vein to Left Renal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06110JY	Bypass Splenic Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06110K9	Bypass Splenic Vein to Right Renal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06110KB	Bypass Splenic Vein to Left Renal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06110KY	Bypass Splenic Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06110Z9	Bypass Splenic Vein to Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06110ZB	Bypass Splenic Vein to Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06110ZY	Bypass Splenic Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
0611479	Bypass Splenic Vein to Right Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061147B	Bypass Splenic Vein to Left Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061147Y	Bypass Splenic Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0611499	Bypass Splenic Vein to Right Renal Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061149B	Bypass Splenic Vein to Left Renal Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061149Y	Bypass Splenic Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114A9	Bypass Splenic Vein to Right Renal Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114AB	Bypass Splenic Vein to Left Renal Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114AY	Bypass Splenic Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114J9	Bypass Splenic Vein to Right Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06114JB	Bypass Splenic Vein to Left Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114JY	Bypass Splenic Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114K9	Bypass Splenic Vein to Right Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114KB	Bypass Splenic Vein to Left Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114KY	Bypass Splenic Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114Z9	Bypass Splenic Vein to Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114ZB	Bypass Splenic Vein to Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06114ZY	Bypass Splenic Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061207Y	Bypass Gastric Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061209Y	Bypass Gastric Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
06120AY	Bypass Gastric Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06120JY	Bypass Gastric Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06120KY	Bypass Gastric Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06120ZY	Bypass Gastric Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061247Y	Bypass Gastric Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061249Y	Bypass Gastric Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06124AY	Bypass Gastric Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06124JY	Bypass Gastric Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06124KY	Bypass Gastric Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06124ZY	Bypass Gastric Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061307Y	Bypass Esophageal Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061309Y	Bypass Esophageal Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
06130AY	Bypass Esophageal Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06130JY	Bypass Esophageal Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06130KY	Bypass Esophageal Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06130ZY	Bypass Esophageal Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
061347Y	Bypass Esophageal Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061349Y	Bypass Esophageal Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06134AY	Bypass Esophageal Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06134JY	Bypass Esophageal Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06134KY	Bypass Esophageal Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06134ZY	Bypass Esophageal Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061407Y	Bypass Hepatic Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061409Y	Bypass Hepatic Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
06140AY	Bypass Hepatic Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06140JY	Bypass Hepatic Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06140KY	Bypass Hepatic Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06140ZY	Bypass Hepatic Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061447Y	Bypass Hepatic Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061449Y	Bypass Hepatic Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06144AY	Bypass Hepatic Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06144JY	Bypass Hepatic Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06144KY	Bypass Hepatic Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06144ZY	Bypass Hepatic Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061507Y	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061509Y	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
06150AY	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06150JY	Bypass Superior Mesenteric Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06150KY	Bypass Superior Mesenteric Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06150ZY	Bypass Superior Mesenteric Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061547Y	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
061549Y	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06154AY	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06154JY	Bypass Superior Mesenteric Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06154KY	Bypass Superior Mesenteric Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06154ZY	Bypass Superior Mesenteric Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061607Y	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061609Y	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
06160AY	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06160JY	Bypass Inferior Mesenteric Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06160KY	Bypass Inferior Mesenteric Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06160ZY	Bypass Inferior Mesenteric Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061647Y	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061649Y	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06164AY	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06164JY	Bypass Inferior Mesenteric Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06164KY	Bypass Inferior Mesenteric Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06164ZY	Bypass Inferior Mesenteric Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061707Y	Bypass Colic Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061709Y	Bypass Colic Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
06170AY	Bypass Colic Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06170JY	Bypass Colic Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06170KY	Bypass Colic Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06170ZY	Bypass Colic Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061747Y	Bypass Colic Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
061749Y	Bypass Colic Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06174AY	Bypass Colic Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06174JY	Bypass Colic Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06174KY	Bypass Colic Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06174ZY	Bypass Colic Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0618079	Bypass Portal Vein to Right Renal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061807B	Bypass Portal Vein to Left Renal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061807Y	Bypass Portal Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0618099	Bypass Portal Vein to Right Renal Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061809B	Bypass Portal Vein to Left Renal Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061809Y	Bypass Portal Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
06180A9	Bypass Portal Vein to Right Renal Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06180AB	Bypass Portal Vein to Left Renal Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06180AY	Bypass Portal Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
06180J9	Bypass Portal Vein to Right Renal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06180JB	Bypass Portal Vein to Left Renal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06180JY	Bypass Portal Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06180K9	Bypass Portal Vein to Right Renal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06180KB	Bypass Portal Vein to Left Renal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06180KY	Bypass Portal Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06180Z9	Bypass Portal Vein to Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06180ZB	Bypass Portal Vein to Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06180ZY	Bypass Portal Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
06183DY	Bypass Portal Vein to Lower Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06183J4	Bypass Portal Vein to Hepatic Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06183JY	Bypass Portal Vein to Lower Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0618479	Bypass Portal Vein to Right Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061847B	Bypass Portal Vein to Left Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061847Y	Bypass Portal Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0618499	Bypass Portal Vein to Right Renal Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061849B	Bypass Portal Vein to Left Renal Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061849Y	Bypass Portal Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184A9	Bypass Portal Vein to Right Renal Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184AB	Bypass Portal Vein to Left Renal Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184AY	Bypass Portal Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184DY	Bypass Portal Vein to Lower Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184J4	Bypass Portal Vein to Hepatic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184J9	Bypass Portal Vein to Right Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184JB	Bypass Portal Vein to Left Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184JY	Bypass Portal Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184K9	Bypass Portal Vein to Right Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184KB	Bypass Portal Vein to Left Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184KY	Bypass Portal Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184Z9	Bypass Portal Vein to Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184ZB	Bypass Portal Vein to Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06184ZY	Bypass Portal Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061907Y	Bypass Right Renal Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061909Y	Bypass Right Renal Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
06190AY	Bypass Right Renal Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06190JY	Bypass Right Renal Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06190KY	Bypass Right Renal Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06190ZY	Bypass Right Renal Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061947Y	Bypass Right Renal Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061949Y	Bypass Right Renal Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06194AY	Bypass Right Renal Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06194JY	Bypass Right Renal Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06194KY	Bypass Right Renal Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06194ZY	Bypass Right Renal Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061B07Y	Bypass Left Renal Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061B09Y	Bypass Left Renal Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061B0AY	Bypass Left Renal Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
061B0JY	Bypass Left Renal Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
061B0KY	Bypass Left Renal Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061B0ZY	Bypass Left Renal Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061B47Y	Bypass Left Renal Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061B49Y	Bypass Left Renal Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061B4AY	Bypass Left Renal Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061B4JY	Bypass Left Renal Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061B4KY	Bypass Left Renal Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061B4ZY	Bypass Left Renal Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061C07Y	Bypass Right Common Iliac Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061C09Y	Bypass Right Common Iliac Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061C0AY	Bypass Right Common Iliac Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
061C0JY	Bypass Right Common Iliac Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
061C0KY	Bypass Right Common Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061C0ZY	Bypass Right Common Iliac Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061C47Y	Bypass Right Common Iliac Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061C49Y	Bypass Right Common Iliac Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061C4AY	Bypass Right Common Iliac Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061C4JY	Bypass Right Common Iliac Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061C4KY	Bypass Right Common Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061C4ZY	Bypass Right Common Iliac Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061D07Y	Bypass Left Common Iliac Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061D09Y	Bypass Left Common Iliac Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061D0AY	Bypass Left Common Iliac Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
061D0JY	Bypass Left Common Iliac Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
061D0KY	Bypass Left Common Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061D0ZY	Bypass Left Common Iliac Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061D47Y	Bypass Left Common Iliac Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061D49Y	Bypass Left Common Iliac Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061D4AY	Bypass Left Common Iliac Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061D4JY	Bypass Left Common Iliac Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061D4KY	Bypass Left Common Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061D4ZY	Bypass Left Common Iliac Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061F07Y	Bypass Right External Iliac Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061F09Y	Bypass Right External Iliac Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061F0AY	Bypass Right External Iliac Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
061F0JY	Bypass Right External Iliac Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
061F0KY	Bypass Right External Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061F0ZY	Bypass Right External Iliac Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061F47Y	Bypass Right External Iliac Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061F49Y	Bypass Right External Iliac Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061F4AY	Bypass Right External Iliac Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061F4JY	Bypass Right External Iliac Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061F4KY	Bypass Right External Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061F4ZY	Bypass Right External Iliac Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061G07Y	Bypass Left External Iliac Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061G09Y	Bypass Left External Iliac Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061G0AY	Bypass Left External Iliac Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
061G0JY	Bypass Left External Iliac Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
061G0KY	Bypass Left External Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061G0ZY	Bypass Left External Iliac Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061G47Y	Bypass Left External Iliac Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061G49Y	Bypass Left External Iliac Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061G4AY	Bypass Left External Iliac Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061G4JY	Bypass Left External Iliac Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061G4KY	Bypass Left External Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061G4ZY	Bypass Left External Iliac Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061H07Y	Bypass Right Hypogastric Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061H09Y	Bypass Right Hypogastric Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
061H0AY	Bypass Right Hypogastric Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
061H0JY	Bypass Right Hypogastric Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
061H0KY	Bypass Right Hypogastric Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061H0ZY	Bypass Right Hypogastric Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061H47Y	Bypass Right Hypogastric Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061H49Y	Bypass Right Hypogastric Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061H4AY	Bypass Right Hypogastric Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061H4JY	Bypass Right Hypogastric Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061H4KY	Bypass Right Hypogastric Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061H4ZY	Bypass Right Hypogastric Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061J07Y	Bypass Left Hypogastric Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061J09Y	Bypass Left Hypogastric Vein to Lower Vein with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
061J0AY	Bypass Left Hypogastric Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
061J0JY	Bypass Left Hypogastric Vein to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
061J0KY	Bypass Left Hypogastric Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
061J0ZY	Bypass Left Hypogastric Vein to Lower Vein, Open Approach	Procedure	ICD-10-PCS
061J47Y	Bypass Left Hypogastric Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061J49Y	Bypass Left Hypogastric Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061J4AY	Bypass Left Hypogastric Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061J4JY	Bypass Left Hypogastric Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061J4KY	Bypass Left Hypogastric Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
061J4ZY	Bypass Left Hypogastric Vein to Lower Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06500ZZ	Destruction of Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06503ZZ	Destruction of Inferior Vena Cava, Percutaneous Approach	Procedure	ICD-10-PCS
06504ZZ	Destruction of Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06510ZZ	Destruction of Splenic Vein, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06513ZZ	Destruction of Splenic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06514ZZ	Destruction of Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06520ZZ	Destruction of Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06523ZZ	Destruction of Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06524ZZ	Destruction of Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06530ZZ	Destruction of Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06533ZZ	Destruction of Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06534ZZ	Destruction of Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06540ZZ	Destruction of Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06543ZZ	Destruction of Hepatic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06544ZZ	Destruction of Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06550ZZ	Destruction of Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06553ZZ	Destruction of Superior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06554ZZ	Destruction of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06560ZZ	Destruction of Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06563ZZ	Destruction of Inferior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06564ZZ	Destruction of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06570ZZ	Destruction of Colic Vein, Open Approach	Procedure	ICD-10-PCS
06573ZZ	Destruction of Colic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06574ZZ	Destruction of Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06580ZZ	Destruction of Portal Vein, Open Approach	Procedure	ICD-10-PCS
06583ZZ	Destruction of Portal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06584ZZ	Destruction of Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06590ZZ	Destruction of Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06593ZZ	Destruction of Right Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06594ZZ	Destruction of Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
065B0ZZ	Destruction of Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
065B3ZZ	Destruction of Left Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
065B4ZZ	Destruction of Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
065C0ZZ	Destruction of Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
065C3ZZ	Destruction of Right Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
065C4ZZ	Destruction of Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
065D0ZZ	Destruction of Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
065D3ZZ	Destruction of Left Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
065D4ZZ	Destruction of Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
065F0ZZ	Destruction of Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
065F3ZZ	Destruction of Right External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
065F4ZZ	Destruction of Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
065G0ZZ	Destruction of Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
065G3ZZ	Destruction of Left External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
065G4ZZ	Destruction of Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
065H0ZZ	Destruction of Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
065H3ZZ	Destruction of Right Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
065H4ZZ	Destruction of Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
065J0ZZ	Destruction of Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
065J3ZZ	Destruction of Left Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
065J4ZZ	Destruction of Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06700DZ	Dilation of Inferior Vena Cava with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06700ZZ	Dilation of Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06703DZ	Dilation of Inferior Vena Cava with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06703ZZ	Dilation of Inferior Vena Cava, Percutaneous Approach	Procedure	ICD-10-PCS
06704DZ	Dilation of Inferior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06704ZZ	Dilation of Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06710DZ	Dilation of Splenic Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06710ZZ	Dilation of Splenic Vein, Open Approach	Procedure	ICD-10-PCS
06713DZ	Dilation of Splenic Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06713ZZ	Dilation of Splenic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06714DZ	Dilation of Splenic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06714ZZ	Dilation of Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06720DZ	Dilation of Gastric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06720ZZ	Dilation of Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06723DZ	Dilation of Gastric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06723ZZ	Dilation of Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06724DZ	Dilation of Gastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06724ZZ	Dilation of Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06730DZ	Dilation of Esophageal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06730ZZ	Dilation of Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06733DZ	Dilation of Esophageal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06733ZZ	Dilation of Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06734DZ	Dilation of Esophageal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06734ZZ	Dilation of Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06740DZ	Dilation of Hepatic Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06740ZZ	Dilation of Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06743DZ	Dilation of Hepatic Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06743ZZ	Dilation of Hepatic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06744DZ	Dilation of Hepatic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06744ZZ	Dilation of Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06750DZ	Dilation of Superior Mesenteric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06750ZZ	Dilation of Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06753DZ	Dilation of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06753ZZ	Dilation of Superior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06754DZ	Dilation of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06754ZZ	Dilation of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06760DZ	Dilation of Inferior Mesenteric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06760ZZ	Dilation of Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06763DZ	Dilation of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06763ZZ	Dilation of Inferior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06764DZ	Dilation of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06764ZZ	Dilation of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06770DZ	Dilation of Colic Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06770ZZ	Dilation of Colic Vein, Open Approach	Procedure	ICD-10-PCS
06773DZ	Dilation of Colic Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06773ZZ	Dilation of Colic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06774DZ	Dilation of Colic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06774ZZ	Dilation of Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06780DZ	Dilation of Portal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06780ZZ	Dilation of Portal Vein, Open Approach	Procedure	ICD-10-PCS
06783DZ	Dilation of Portal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06783ZZ	Dilation of Portal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06784DZ	Dilation of Portal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06784ZZ	Dilation of Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06790DZ	Dilation of Right Renal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06790ZZ	Dilation of Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06793DZ	Dilation of Right Renal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06793ZZ	Dilation of Right Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06794DZ	Dilation of Right Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06794ZZ	Dilation of Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067B0DZ	Dilation of Left Renal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
067B0ZZ	Dilation of Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
067B3DZ	Dilation of Left Renal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
067B3ZZ	Dilation of Left Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
067B4DZ	Dilation of Left Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067B4ZZ	Dilation of Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067C0DZ	Dilation of Right Common Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
067C0ZZ	Dilation of Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
067C3DZ	Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
067C3ZZ	Dilation of Right Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
067C4DZ	Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067C4ZZ	Dilation of Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067D0DZ	Dilation of Left Common Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
067D0ZZ	Dilation of Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
067D3DZ	Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
067D3ZZ	Dilation of Left Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
067D4DZ	Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067D4ZZ	Dilation of Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067F0DZ	Dilation of Right External Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
067F0ZZ	Dilation of Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
067F3DZ	Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
067F3ZZ	Dilation of Right External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
067F4DZ	Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067F4ZZ	Dilation of Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067G0DZ	Dilation of Left External Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
067G0ZZ	Dilation of Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
067G3DZ	Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
067G3ZZ	Dilation of Left External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
067G4DZ	Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067G4ZZ	Dilation of Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067H0DZ	Dilation of Right Hypogastric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
067H0ZZ	Dilation of Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
067H3DZ	Dilation of Right Hypogastric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
067H3ZZ	Dilation of Right Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
067H4DZ	Dilation of Right Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067H4ZZ	Dilation of Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067J0DZ	Dilation of Left Hypogastric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
067J0ZZ	Dilation of Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
067J3DZ	Dilation of Left Hypogastric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
067J3ZZ	Dilation of Left Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
067J4DZ	Dilation of Left Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
067J4ZZ	Dilation of Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069000Z	Drainage of Inferior Vena Cava with Drainage Device, Open Approach	Procedure	ICD-10-PCS
06900ZZ	Drainage of Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
069040Z	Drainage of Inferior Vena Cava with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06904ZZ	Drainage of Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069100Z	Drainage of Splenic Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06910ZZ	Drainage of Splenic Vein, Open Approach	Procedure	ICD-10-PCS
069140Z	Drainage of Splenic Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06914ZZ	Drainage of Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069200Z	Drainage of Gastric Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
06920ZZ	Drainage of Gastric Vein, Open Approach	Procedure	ICD-10-PCS
069240Z	Drainage of Gastric Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06924ZZ	Drainage of Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069300Z	Drainage of Esophageal Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
06930ZZ	Drainage of Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
069340Z	Drainage of Esophageal Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06934ZZ	Drainage of Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069400Z	Drainage of Hepatic Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
06940ZZ	Drainage of Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
069440Z	Drainage of Hepatic Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06944ZZ	Drainage of Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069500Z	Drainage of Superior Mesenteric Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
06950ZZ	Drainage of Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
069540Z	Drainage of Superior Mesenteric Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06954ZZ	Drainage of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069600Z	Drainage of Inferior Mesenteric Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
06960ZZ	Drainage of Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
069640Z	Drainage of Inferior Mesenteric Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06964ZZ	Drainage of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069700Z	Drainage of Colic Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
06970ZZ	Drainage of Colic Vein, Open Approach	Procedure	ICD-10-PCS
069740Z	Drainage of Colic Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06974ZZ	Drainage of Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069800Z	Drainage of Portal Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
06980ZZ	Drainage of Portal Vein, Open Approach	Procedure	ICD-10-PCS
069840Z	Drainage of Portal Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06984ZZ	Drainage of Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069900Z	Drainage of Right Renal Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
06990ZZ	Drainage of Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
069940Z	Drainage of Right Renal Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06994ZZ	Drainage of Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069B00Z	Drainage of Left Renal Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
069B0ZZ	Drainage of Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
069B40Z	Drainage of Left Renal Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069B4ZZ	Drainage of Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069C00Z	Drainage of Right Common Iliac Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
069C0ZZ	Drainage of Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
069C40Z	Drainage of Right Common Iliac Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069C4ZZ	Drainage of Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069D00Z	Drainage of Left Common Iliac Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
069D0ZZ	Drainage of Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
069D40Z	Drainage of Left Common Iliac Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069D4ZZ	Drainage of Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069F00Z	Drainage of Right External Iliac Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
069F0ZZ	Drainage of Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
069F40Z	Drainage of Right External Iliac Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069F4ZZ	Drainage of Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069G00Z	Drainage of Left External Iliac Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
069G0ZZ	Drainage of Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
069G40Z	Drainage of Left External Iliac Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069G4ZZ	Drainage of Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069H00Z	Drainage of Right Hypogastric Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
069H0ZZ	Drainage of Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
069H40Z	Drainage of Right Hypogastric Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069H4ZZ	Drainage of Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069J00Z	Drainage of Left Hypogastric Vein with Drainage Device, Open Approach	Procedure	ICD-10-PCS
069J0ZZ	Drainage of Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
069J40Z	Drainage of Left Hypogastric Vein with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
069J4ZZ	Drainage of Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06B00ZZ	Excision of Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06B03ZZ	Excision of Inferior Vena Cava, Percutaneous Approach	Procedure	ICD-10-PCS
06B04ZZ	Excision of Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06B10ZZ	Excision of Splenic Vein, Open Approach	Procedure	ICD-10-PCS
06B13ZZ	Excision of Splenic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06B14ZZ	Excision of Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06B20ZZ	Excision of Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06B23ZZ	Excision of Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06B24ZZ	Excision of Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06B30ZZ	Excision of Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06B33ZZ	Excision of Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06B34ZZ	Excision of Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06B40ZZ	Excision of Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06B43ZZ	Excision of Hepatic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06B44ZZ	Excision of Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06B50ZZ	Excision of Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06B53ZZ	Excision of Superior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06B54ZZ	Excision of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06B60ZZ	Excision of Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06B63ZZ	Excision of Inferior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06B64ZZ	Excision of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06B70ZZ	Excision of Colic Vein, Open Approach	Procedure	ICD-10-PCS
06B73ZZ	Excision of Colic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06B74ZZ	Excision of Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06B80ZZ	Excision of Portal Vein, Open Approach	Procedure	ICD-10-PCS
06B83ZZ	Excision of Portal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06B84ZZ	Excision of Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06B90ZZ	Excision of Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06B93ZZ	Excision of Right Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06B94ZZ	Excision of Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06BB0ZZ	Excision of Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06BB3ZZ	Excision of Left Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06BB4ZZ	Excision of Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06BC0ZZ	Excision of Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06BC3ZZ	Excision of Right Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06BC4ZZ	Excision of Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06BD0ZZ	Excision of Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06BD3ZZ	Excision of Left Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06BD4ZZ	Excision of Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06BF0ZZ	Excision of Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06BF3ZZ	Excision of Right External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06BF4ZZ	Excision of Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06BG0ZZ	Excision of Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06BG3ZZ	Excision of Left External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06BG4ZZ	Excision of Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06BH0ZZ	Excision of Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06BH3ZZ	Excision of Right Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06BH4ZZ	Excision of Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06BJ0ZZ	Excision of Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06BJ3ZZ	Excision of Left Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06BJ4ZZ	Excision of Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06C00ZZ	Extirpation of Matter from Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06C03ZZ	Extirpation of Matter from Inferior Vena Cava, Percutaneous Approach	Procedure	ICD-10-PCS
06C04ZZ	Extirpation of Matter from Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06C10ZZ	Extirpation of Matter from Splenic Vein, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06C13ZZ	Extirpation of Matter from Splenic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06C14ZZ	Extirpation of Matter from Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06C20ZZ	Extirpation of Matter from Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06C23ZZ	Extirpation of Matter from Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06C24ZZ	Extirpation of Matter from Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06C30ZZ	Extirpation of Matter from Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06C33ZZ	Extirpation of Matter from Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06C34ZZ	Extirpation of Matter from Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06C40ZZ	Extirpation of Matter from Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06C43ZZ	Extirpation of Matter from Hepatic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06C44ZZ	Extirpation of Matter from Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06C50ZZ	Extirpation of Matter from Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06C53ZZ	Extirpation of Matter from Superior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06C54ZZ	Extirpation of Matter from Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06C60ZZ	Extirpation of Matter from Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06C63ZZ	Extirpation of Matter from Inferior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06C64ZZ	Extirpation of Matter from Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06C70ZZ	Extirpation of Matter from Colic Vein, Open Approach	Procedure	ICD-10-PCS
06C73ZZ	Extirpation of Matter from Colic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06C74ZZ	Extirpation of Matter from Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06C80ZZ	Extirpation of Matter from Portal Vein, Open Approach	Procedure	ICD-10-PCS
06C83ZZ	Extirpation of Matter from Portal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06C84ZZ	Extirpation of Matter from Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06C90ZZ	Extirpation of Matter from Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06C93ZZ	Extirpation of Matter from Right Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06C94ZZ	Extirpation of Matter from Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06CB0ZZ	Extirpation of Matter from Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06CB3ZZ	Extirpation of Matter from Left Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06CB4ZZ	Extirpation of Matter from Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06CC0ZZ	Extirpation of Matter from Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06CC3ZZ	Extirpation of Matter from Right Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06CC4ZZ	Extirpation of Matter from Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06CD0ZZ	Extirpation of Matter from Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06CD3ZZ	Extirpation of Matter from Left Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06CD4ZZ	Extirpation of Matter from Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06CF0ZZ	Extirpation of Matter from Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06CF3ZZ	Extirpation of Matter from Right External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06CF4ZZ	Extirpation of Matter from Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06CG0ZZ	Extirpation of Matter from Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06CG3ZZ	Extirpation of Matter from Left External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06CG4ZZ	Extirpation of Matter from Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06CH0ZZ	Extirpation of Matter from Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06CH3ZZ	Extirpation of Matter from Right Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06CH4ZZ	Extirpation of Matter from Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06CJ0ZZ	Extirpation of Matter from Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06CJ3ZZ	Extirpation of Matter from Left Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06CJ4ZZ	Extirpation of Matter from Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H003Z	Insertion of Infusion Device into Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06H00DZ	Insertion of Intraluminal Device into Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06H043Z	Insertion of Infusion Device into Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H04DZ	Insertion of Intraluminal Device into Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H103Z	Insertion of Infusion Device into Splenic Vein, Open Approach	Procedure	ICD-10-PCS
06H10DZ	Insertion of Intraluminal Device into Splenic Vein, Open Approach	Procedure	ICD-10-PCS
06H13DZ	Insertion of Intraluminal Device into Splenic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06H143Z	Insertion of Infusion Device into Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H14DZ	Insertion of Intraluminal Device into Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H203Z	Insertion of Infusion Device into Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06H20DZ	Insertion of Intraluminal Device into Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06H23DZ	Insertion of Intraluminal Device into Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06H243Z	Insertion of Infusion Device into Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H24DZ	Insertion of Intraluminal Device into Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H303Z	Insertion of Infusion Device into Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06H30DZ	Insertion of Intraluminal Device into Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06H33DZ	Insertion of Intraluminal Device into Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06H343Z	Insertion of Infusion Device into Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H34DZ	Insertion of Intraluminal Device into Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H403Z	Insertion of Infusion Device into Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06H40DZ	Insertion of Intraluminal Device into Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06H43DZ	Insertion of Intraluminal Device into Hepatic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06H443Z	Insertion of Infusion Device into Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06H44DZ	Insertion of Intraluminal Device into Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H503Z	Insertion of Infusion Device into Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06H50DZ	Insertion of Intraluminal Device into Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06H53DZ	Insertion of Intraluminal Device into Superior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06H543Z	Insertion of Infusion Device into Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H54DZ	Insertion of Intraluminal Device into Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H603Z	Insertion of Infusion Device into Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06H60DZ	Insertion of Intraluminal Device into Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06H63DZ	Insertion of Intraluminal Device into Inferior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06H643Z	Insertion of Infusion Device into Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H64DZ	Insertion of Intraluminal Device into Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H703Z	Insertion of Infusion Device into Colic Vein, Open Approach	Procedure	ICD-10-PCS
06H70DZ	Insertion of Intraluminal Device into Colic Vein, Open Approach	Procedure	ICD-10-PCS
06H73DZ	Insertion of Intraluminal Device into Colic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06H743Z	Insertion of Infusion Device into Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H74DZ	Insertion of Intraluminal Device into Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H803Z	Insertion of Infusion Device into Portal Vein, Open Approach	Procedure	ICD-10-PCS
06H80DZ	Insertion of Intraluminal Device into Portal Vein, Open Approach	Procedure	ICD-10-PCS
06H83DZ	Insertion of Intraluminal Device into Portal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06H843Z	Insertion of Infusion Device into Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H84DZ	Insertion of Intraluminal Device into Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H903Z	Insertion of Infusion Device into Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06H90DZ	Insertion of Intraluminal Device into Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06H93DZ	Insertion of Intraluminal Device into Right Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06H943Z	Insertion of Infusion Device into Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06H94DZ	Insertion of Intraluminal Device into Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HB03Z	Insertion of Infusion Device into Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06HB0DZ	Insertion of Intraluminal Device into Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06HB3DZ	Insertion of Intraluminal Device into Left Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06HB43Z	Insertion of Infusion Device into Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HB4DZ	Insertion of Intraluminal Device into Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06HC03Z	Insertion of Infusion Device into Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06HC0DZ	Insertion of Intraluminal Device into Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06HC3DZ	Insertion of Intraluminal Device into Right Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06HC43Z	Insertion of Infusion Device into Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HC4DZ	Insertion of Intraluminal Device into Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HD03Z	Insertion of Infusion Device into Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06HD0DZ	Insertion of Intraluminal Device into Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06HD3DZ	Insertion of Intraluminal Device into Left Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06HD43Z	Insertion of Infusion Device into Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HD4DZ	Insertion of Intraluminal Device into Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HF03Z	Insertion of Infusion Device into Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06HF0DZ	Insertion of Intraluminal Device into Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06HF3DZ	Insertion of Intraluminal Device into Right External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06HF43Z	Insertion of Infusion Device into Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HF4DZ	Insertion of Intraluminal Device into Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HG03Z	Insertion of Infusion Device into Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06HG0DZ	Insertion of Intraluminal Device into Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06HG3DZ	Insertion of Intraluminal Device into Left External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06HG43Z	Insertion of Infusion Device into Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HG4DZ	Insertion of Intraluminal Device into Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HH03Z	Insertion of Infusion Device into Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06HH0DZ	Insertion of Intraluminal Device into Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06HH3DZ	Insertion of Intraluminal Device into Right Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06HH43Z	Insertion of Infusion Device into Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HH4DZ	Insertion of Intraluminal Device into Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HJ03Z	Insertion of Infusion Device into Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06HJ0DZ	Insertion of Intraluminal Device into Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06HJ3DZ	Insertion of Intraluminal Device into Left Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06HJ43Z	Insertion of Infusion Device into Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06HJ4DZ	Insertion of Intraluminal Device into Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L00CZ	Occlusion of Inferior Vena Cava with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L00DZ	Occlusion of Inferior Vena Cava with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L00ZZ	Occlusion of Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06L03CZ	Occlusion of Inferior Vena Cava with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L03DZ	Occlusion of Inferior Vena Cava with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L03ZZ	Occlusion of Inferior Vena Cava, Percutaneous Approach	Procedure	ICD-10-PCS
06L04CZ	Occlusion of Inferior Vena Cava with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L04DZ	Occlusion of Inferior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L04ZZ	Occlusion of Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L10CZ	Occlusion of Splenic Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L10DZ	Occlusion of Splenic Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L10ZZ	Occlusion of Splenic Vein, Open Approach	Procedure	ICD-10-PCS
06L13CZ	Occlusion of Splenic Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L13DZ	Occlusion of Splenic Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L13ZZ	Occlusion of Splenic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06L14CZ	Occlusion of Splenic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L14DZ	Occlusion of Splenic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L14ZZ	Occlusion of Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L20CZ	Occlusion of Gastric Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L20DZ	Occlusion of Gastric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L20ZZ	Occlusion of Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06L23CZ	Occlusion of Gastric Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L23DZ	Occlusion of Gastric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L23ZZ	Occlusion of Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06L24CZ	Occlusion of Gastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L24DZ	Occlusion of Gastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L24ZZ	Occlusion of Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L30CZ	Occlusion of Esophageal Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L30DZ	Occlusion of Esophageal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L30ZZ	Occlusion of Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06L33CZ	Occlusion of Esophageal Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L33DZ	Occlusion of Esophageal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L33ZZ	Occlusion of Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06L34CZ	Occlusion of Esophageal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L34DZ	Occlusion of Esophageal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L34ZZ	Occlusion of Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L40CZ	Occlusion of Hepatic Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L40DZ	Occlusion of Hepatic Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L40ZZ	Occlusion of Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06L43CZ	Occlusion of Hepatic Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L43DZ	Occlusion of Hepatic Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L43ZZ	Occlusion of Hepatic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06L44CZ	Occlusion of Hepatic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L44DZ	Occlusion of Hepatic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L44ZZ	Occlusion of Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L50CZ	Occlusion of Superior Mesenteric Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L50DZ	Occlusion of Superior Mesenteric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L50ZZ	Occlusion of Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06L53CZ	Occlusion of Superior Mesenteric Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L53DZ	Occlusion of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L53ZZ	Occlusion of Superior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06L54CZ	Occlusion of Superior Mesenteric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L54DZ	Occlusion of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L54ZZ	Occlusion of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L60CZ	Occlusion of Inferior Mesenteric Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L60DZ	Occlusion of Inferior Mesenteric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L60ZZ	Occlusion of Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06L63CZ	Occlusion of Inferior Mesenteric Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L63DZ	Occlusion of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L63ZZ	Occlusion of Inferior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06L64CZ	Occlusion of Inferior Mesenteric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L64DZ	Occlusion of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L64ZZ	Occlusion of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L70CZ	Occlusion of Colic Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L70DZ	Occlusion of Colic Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06L70ZZ	Occlusion of Colic Vein, Open Approach	Procedure	ICD-10-PCS
06L73CZ	Occlusion of Colic Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L73DZ	Occlusion of Colic Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L73ZZ	Occlusion of Colic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06L74CZ	Occlusion of Colic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L74DZ	Occlusion of Colic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L74ZZ	Occlusion of Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L80CZ	Occlusion of Portal Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L80DZ	Occlusion of Portal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L80ZZ	Occlusion of Portal Vein, Open Approach	Procedure	ICD-10-PCS
06L83CZ	Occlusion of Portal Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L83DZ	Occlusion of Portal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L83ZZ	Occlusion of Portal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06L84CZ	Occlusion of Portal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L84DZ	Occlusion of Portal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L84ZZ	Occlusion of Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L90CZ	Occlusion of Right Renal Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L90DZ	Occlusion of Right Renal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06L90ZZ	Occlusion of Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06L93CZ	Occlusion of Right Renal Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L93DZ	Occlusion of Right Renal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06L93ZZ	Occlusion of Right Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06L94CZ	Occlusion of Right Renal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L94DZ	Occlusion of Right Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06L94ZZ	Occlusion of Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LB0CZ	Occlusion of Left Renal Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LB0DZ	Occlusion of Left Renal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LB0ZZ	Occlusion of Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06LB3CZ	Occlusion of Left Renal Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LB3DZ	Occlusion of Left Renal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LB3ZZ	Occlusion of Left Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06LB4CZ	Occlusion of Left Renal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LB4DZ	Occlusion of Left Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LB4ZZ	Occlusion of Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LC0CZ	Occlusion of Right Common Iliac Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LC0DZ	Occlusion of Right Common Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LC0ZZ	Occlusion of Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06LC3CZ	Occlusion of Right Common Iliac Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LC3DZ	Occlusion of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LC3ZZ	Occlusion of Right Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06LC4CZ	Occlusion of Right Common Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LC4DZ	Occlusion of Right Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LC4ZZ	Occlusion of Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LD0CZ	Occlusion of Left Common Iliac Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LD0DZ	Occlusion of Left Common Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LD0ZZ	Occlusion of Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06LD3CZ	Occlusion of Left Common Iliac Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LD3DZ	Occlusion of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LD3ZZ	Occlusion of Left Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06LD4CZ	Occlusion of Left Common Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LD4DZ	Occlusion of Left Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LD4ZZ	Occlusion of Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LF0CZ	Occlusion of Right External Iliac Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LF0DZ	Occlusion of Right External Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LF0ZZ	Occlusion of Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06LF3CZ	Occlusion of Right External Iliac Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LF3DZ	Occlusion of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LF3ZZ	Occlusion of Right External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06LF4CZ	Occlusion of Right External Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LF4DZ	Occlusion of Right External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LF4ZZ	Occlusion of Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LG0CZ	Occlusion of Left External Iliac Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LG0DZ	Occlusion of Left External Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LG0ZZ	Occlusion of Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06LG3CZ	Occlusion of Left External Iliac Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LG3DZ	Occlusion of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LG3ZZ	Occlusion of Left External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06LG4CZ	Occlusion of Left External Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LG4DZ	Occlusion of Left External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LG4ZZ	Occlusion of Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LH0CZ	Occlusion of Right Hypogastric Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LH0DZ	Occlusion of Right Hypogastric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LH0ZZ	Occlusion of Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06LH3CZ	Occlusion of Right Hypogastric Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LH3DZ	Occlusion of Right Hypogastric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LH3ZZ	Occlusion of Right Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06LH4CZ	Occlusion of Right Hypogastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LH4DZ	Occlusion of Right Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LH4ZZ	Occlusion of Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LJ0CZ	Occlusion of Left Hypogastric Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LJ0DZ	Occlusion of Left Hypogastric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06LJ0ZZ	Occlusion of Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06LJ3CZ	Occlusion of Left Hypogastric Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LJ3DZ	Occlusion of Left Hypogastric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06LJ3ZZ	Occlusion of Left Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06LJ4CZ	Occlusion of Left Hypogastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LJ4DZ	Occlusion of Left Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06LJ4ZZ	Occlusion of Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06N00ZZ	Release Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06N03ZZ	Release Inferior Vena Cava, Percutaneous Approach	Procedure	ICD-10-PCS
06N04ZZ	Release Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06N10ZZ	Release Splenic Vein, Open Approach	Procedure	ICD-10-PCS
06N13ZZ	Release Splenic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06N14ZZ	Release Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06N20ZZ	Release Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06N23ZZ	Release Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06N24ZZ	Release Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06N30ZZ	Release Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06N33ZZ	Release Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06N34ZZ	Release Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06N40ZZ	Release Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06N43ZZ	Release Hepatic Vein, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06N44ZZ	Release Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06N50ZZ	Release Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06N53ZZ	Release Superior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06N54ZZ	Release Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06N60ZZ	Release Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06N63ZZ	Release Inferior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06N64ZZ	Release Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06N70ZZ	Release Colic Vein, Open Approach	Procedure	ICD-10-PCS
06N73ZZ	Release Colic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06N74ZZ	Release Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06N80ZZ	Release Portal Vein, Open Approach	Procedure	ICD-10-PCS
06N83ZZ	Release Portal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06N84ZZ	Release Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06N90ZZ	Release Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06N93ZZ	Release Right Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06N94ZZ	Release Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06NB0ZZ	Release Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06NB3ZZ	Release Left Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06NB4ZZ	Release Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06NC0ZZ	Release Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06NC3ZZ	Release Right Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06NC4ZZ	Release Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06ND0ZZ	Release Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06ND3ZZ	Release Left Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06ND4ZZ	Release Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06NF0ZZ	Release Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06NF3ZZ	Release Right External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06NF4ZZ	Release Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06NG0ZZ	Release Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06NG3ZZ	Release Left External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06NG4ZZ	Release Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06NH0ZZ	Release Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06NH3ZZ	Release Right Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06NH4ZZ	Release Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06NJ0ZZ	Release Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06NJ3ZZ	Release Left Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06NJ4ZZ	Release Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06Q00ZZ	Repair Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06Q03ZZ	Repair Inferior Vena Cava, Percutaneous Approach	Procedure	ICD-10-PCS
06Q04ZZ	Repair Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06Q10ZZ	Repair Splenic Vein, Open Approach	Procedure	ICD-10-PCS
06Q13ZZ	Repair Splenic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06Q14ZZ	Repair Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06Q20ZZ	Repair Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06Q23ZZ	Repair Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06Q24ZZ	Repair Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06Q30ZZ	Repair Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06Q33ZZ	Repair Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06Q34ZZ	Repair Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06Q40ZZ	Repair Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06Q43ZZ	Repair Hepatic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06Q44ZZ	Repair Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06Q50ZZ	Repair Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06Q53ZZ	Repair Superior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06Q54ZZ	Repair Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06Q60ZZ	Repair Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06Q63ZZ	Repair Inferior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06Q64ZZ	Repair Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06Q70ZZ	Repair Colic Vein, Open Approach	Procedure	ICD-10-PCS
06Q73ZZ	Repair Colic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06Q74ZZ	Repair Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06Q80ZZ	Repair Portal Vein, Open Approach	Procedure	ICD-10-PCS
06Q83ZZ	Repair Portal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06Q84ZZ	Repair Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06Q90ZZ	Repair Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06Q93ZZ	Repair Right Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06Q94ZZ	Repair Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06QB0ZZ	Repair Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06QB3ZZ	Repair Left Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06QB4ZZ	Repair Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06QC0ZZ	Repair Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06QC3ZZ	Repair Right Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06QC4ZZ	Repair Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06QD0ZZ	Repair Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06QD3ZZ	Repair Left Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06QD4ZZ	Repair Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06QF0ZZ	Repair Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06QF3ZZ	Repair Right External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06QF4ZZ	Repair Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06QG0ZZ	Repair Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06QG3ZZ	Repair Left External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06QG4ZZ	Repair Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06QH0ZZ	Repair Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06QH3ZZ	Repair Right Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06QH4ZZ	Repair Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06QJ0ZZ	Repair Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06QJ3ZZ	Repair Left Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06QJ4ZZ	Repair Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R007Z	Replacement of Inferior Vena Cava with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06R00JZ	Replacement of Inferior Vena Cava with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06R00KZ	Replacement of Inferior Vena Cava with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R047Z	Replacement of Inferior Vena Cava with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R04JZ	Replacement of Inferior Vena Cava with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R04KZ	Replacement of Inferior Vena Cava with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R107Z	Replacement of Splenic Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R10JZ	Replacement of Splenic Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06R10KZ	Replacement of Splenic Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R147Z	Replacement of Splenic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R14JZ	Replacement of Splenic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R14KZ	Replacement of Splenic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R207Z	Replacement of Gastric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R20JZ	Replacement of Gastric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06R20KZ	Replacement of Gastric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R247Z	Replacement of Gastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R24JZ	Replacement of Gastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R24KZ	Replacement of Gastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R307Z	Replacement of Esophageal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R30JZ	Replacement of Esophageal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06R30KZ	Replacement of Esophageal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R347Z	Replacement of Esophageal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R34JZ	Replacement of Esophageal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R34KZ	Replacement of Esophageal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R407Z	Replacement of Hepatic Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R40JZ	Replacement of Hepatic Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06R40KZ	Replacement of Hepatic Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06R447Z	Replacement of Hepatic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R44JZ	Replacement of Hepatic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R44KZ	Replacement of Hepatic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R507Z	Replacement of Superior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R50JZ	Replacement of Superior Mesenteric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06R50KZ	Replacement of Superior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R547Z	Replacement of Superior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R54JZ	Replacement of Superior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R54KZ	Replacement of Superior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R607Z	Replacement of Inferior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R60JZ	Replacement of Inferior Mesenteric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06R60KZ	Replacement of Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R647Z	Replacement of Inferior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R64JZ	Replacement of Inferior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R64KZ	Replacement of Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R707Z	Replacement of Colic Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R70JZ	Replacement of Colic Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06R70KZ	Replacement of Colic Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R747Z	Replacement of Colic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R74JZ	Replacement of Colic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R74KZ	Replacement of Colic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R807Z	Replacement of Portal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R80JZ	Replacement of Portal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06R80KZ	Replacement of Portal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06R847Z	Replacement of Portal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R84JZ	Replacement of Portal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R84KZ	Replacement of Portal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R907Z	Replacement of Right Renal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R90JZ	Replacement of Right Renal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06R90KZ	Replacement of Right Renal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06R947Z	Replacement of Right Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R94JZ	Replacement of Right Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06R94KZ	Replacement of Right Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RB07Z	Replacement of Left Renal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RB0JZ	Replacement of Left Renal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06RB0KZ	Replacement of Left Renal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RB47Z	Replacement of Left Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RB4JZ	Replacement of Left Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RB4KZ	Replacement of Left Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RC07Z	Replacement of Right Common Iliac Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RC0JZ	Replacement of Right Common Iliac Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06RC0KZ	Replacement of Right Common Iliac Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RC47Z	Replacement of Right Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RC4JZ	Replacement of Right Common Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RC4KZ	Replacement of Right Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RD07Z	Replacement of Left Common Iliac Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RD0JZ	Replacement of Left Common Iliac Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06RD0KZ	Replacement of Left Common Iliac Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RD47Z	Replacement of Left Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RD4JZ	Replacement of Left Common Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RD4KZ	Replacement of Left Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RF07Z	Replacement of Right External Iliac Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RF0JZ	Replacement of Right External Iliac Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06RF0KZ	Replacement of Right External Iliac Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RF47Z	Replacement of Right External Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RF4JZ	Replacement of Right External Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RF4KZ	Replacement of Right External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RG07Z	Replacement of Left External Iliac Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RG0JZ	Replacement of Left External Iliac Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06RG0KZ	Replacement of Left External Iliac Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RG47Z	Replacement of Left External Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RG4JZ	Replacement of Left External Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RG4KZ	Replacement of Left External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RH07Z	Replacement of Right Hypogastric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RH0JZ	Replacement of Right Hypogastric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06RH0KZ	Replacement of Right Hypogastric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RH47Z	Replacement of Right Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RH4JZ	Replacement of Right Hypogastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RH4KZ	Replacement of Right Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06RJ07Z	Replacement of Left Hypogastric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RJ0JZ	Replacement of Left Hypogastric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06RJ0KZ	Replacement of Left Hypogastric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06RJ47Z	Replacement of Left Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RJ4JZ	Replacement of Left Hypogastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06RJ4KZ	Replacement of Left Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06S00ZZ	Reposition Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06S03ZZ	Reposition Inferior Vena Cava, Percutaneous Approach	Procedure	ICD-10-PCS
06S04ZZ	Reposition Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06S10ZZ	Reposition Splenic Vein, Open Approach	Procedure	ICD-10-PCS
06S13ZZ	Reposition Splenic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06S14ZZ	Reposition Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06S20ZZ	Reposition Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06S23ZZ	Reposition Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06S24ZZ	Reposition Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06S30ZZ	Reposition Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06S33ZZ	Reposition Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06S34ZZ	Reposition Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06S40ZZ	Reposition Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06S43ZZ	Reposition Hepatic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06S44ZZ	Reposition Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06S50ZZ	Reposition Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06S53ZZ	Reposition Superior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06S54ZZ	Reposition Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06S60ZZ	Reposition Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06S63ZZ	Reposition Inferior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06S64ZZ	Reposition Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06S70ZZ	Reposition Colic Vein, Open Approach	Procedure	ICD-10-PCS
06S73ZZ	Reposition Colic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06S74ZZ	Reposition Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06S80ZZ	Reposition Portal Vein, Open Approach	Procedure	ICD-10-PCS
06S83ZZ	Reposition Portal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06S84ZZ	Reposition Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06S90ZZ	Reposition Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06S93ZZ	Reposition Right Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06S94ZZ	Reposition Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06SB0ZZ	Reposition Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06SB3ZZ	Reposition Left Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06SB4ZZ	Reposition Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06SC0ZZ	Reposition Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06SC3ZZ	Reposition Right Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06SC4ZZ	Reposition Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06SD0ZZ	Reposition Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06SD3ZZ	Reposition Left Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06SD4ZZ	Reposition Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06SF0ZZ	Reposition Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06SF3ZZ	Reposition Right External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06SF4ZZ	Reposition Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06SG0ZZ	Reposition Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06SG3ZZ	Reposition Left External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06SG4ZZ	Reposition Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06SH0ZZ	Reposition Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06SH3ZZ	Reposition Right Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06SH4ZZ	Reposition Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06SJ0ZZ	Reposition Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06SJ3ZZ	Reposition Left Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06SJ4ZZ	Reposition Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U007Z	Supplement Inferior Vena Cava with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U00JZ	Supplement Inferior Vena Cava with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06U00KZ	Supplement Inferior Vena Cava with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U037Z	Supplement Inferior Vena Cava with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U03JZ	Supplement Inferior Vena Cava with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U03KZ	Supplement Inferior Vena Cava with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U047Z	Supplement Inferior Vena Cava with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U04JZ	Supplement Inferior Vena Cava with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U04KZ	Supplement Inferior Vena Cava with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U107Z	Supplement Splenic Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U10JZ	Supplement Splenic Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06U10KZ	Supplement Splenic Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U137Z	Supplement Splenic Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U13JZ	Supplement Splenic Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U13KZ	Supplement Splenic Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U147Z	Supplement Splenic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06U14JZ	Supplement Splenic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U14KZ	Supplement Splenic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U207Z	Supplement Gastric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U20JZ	Supplement Gastric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06U20KZ	Supplement Gastric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U237Z	Supplement Gastric Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U23JZ	Supplement Gastric Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U23KZ	Supplement Gastric Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U247Z	Supplement Gastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U24JZ	Supplement Gastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U24KZ	Supplement Gastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U307Z	Supplement Esophageal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U30JZ	Supplement Esophageal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06U30KZ	Supplement Esophageal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U337Z	Supplement Esophageal Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U33JZ	Supplement Esophageal Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U33KZ	Supplement Esophageal Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U347Z	Supplement Esophageal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U34JZ	Supplement Esophageal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U34KZ	Supplement Esophageal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U407Z	Supplement Hepatic Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U40JZ	Supplement Hepatic Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06U40KZ	Supplement Hepatic Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U437Z	Supplement Hepatic Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U43JZ	Supplement Hepatic Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U43KZ	Supplement Hepatic Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06U447Z	Supplement Hepatic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U44JZ	Supplement Hepatic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U44KZ	Supplement Hepatic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U507Z	Supplement Superior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U50JZ	Supplement Superior Mesenteric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06U50KZ	Supplement Superior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U537Z	Supplement Superior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U53JZ	Supplement Superior Mesenteric Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U53KZ	Supplement Superior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U547Z	Supplement Superior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U54JZ	Supplement Superior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U54KZ	Supplement Superior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U607Z	Supplement Inferior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U60JZ	Supplement Inferior Mesenteric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06U60KZ	Supplement Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U637Z	Supplement Inferior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U63JZ	Supplement Inferior Mesenteric Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U63KZ	Supplement Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U647Z	Supplement Inferior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U64JZ	Supplement Inferior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U64KZ	Supplement Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U707Z	Supplement Colic Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U70JZ	Supplement Colic Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06U70KZ	Supplement Colic Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06U737Z	Supplement Colic Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U73JZ	Supplement Colic Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U73KZ	Supplement Colic Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U747Z	Supplement Colic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U74JZ	Supplement Colic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U74KZ	Supplement Colic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U807Z	Supplement Portal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U80JZ	Supplement Portal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06U80KZ	Supplement Portal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U837Z	Supplement Portal Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U83JZ	Supplement Portal Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U83KZ	Supplement Portal Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U847Z	Supplement Portal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U84JZ	Supplement Portal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U84KZ	Supplement Portal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U907Z	Supplement Right Renal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U90JZ	Supplement Right Renal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06U90KZ	Supplement Right Renal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06U937Z	Supplement Right Renal Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U93JZ	Supplement Right Renal Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U93KZ	Supplement Right Renal Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06U947Z	Supplement Right Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U94JZ	Supplement Right Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06U94KZ	Supplement Right Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UB07Z	Supplement Left Renal Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UB0JZ	Supplement Left Renal Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06UB0KZ	Supplement Left Renal Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06UB37Z	Supplement Left Renal Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UB3JZ	Supplement Left Renal Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UB3KZ	Supplement Left Renal Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UB47Z	Supplement Left Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UB4JZ	Supplement Left Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UB4KZ	Supplement Left Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UC07Z	Supplement Right Common Iliac Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UC0JZ	Supplement Right Common Iliac Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06UC0KZ	Supplement Right Common Iliac Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UC37Z	Supplement Right Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UC3JZ	Supplement Right Common Iliac Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UC3KZ	Supplement Right Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UC47Z	Supplement Right Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UC4JZ	Supplement Right Common Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UC4KZ	Supplement Right Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UD07Z	Supplement Left Common Iliac Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UD0JZ	Supplement Left Common Iliac Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06UD0KZ	Supplement Left Common Iliac Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UD37Z	Supplement Left Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UD3JZ	Supplement Left Common Iliac Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UD3KZ	Supplement Left Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UD47Z	Supplement Left Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UD4JZ	Supplement Left Common Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UD4KZ	Supplement Left Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06UF07Z	Supplement Right External Iliac Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UF0JZ	Supplement Right External Iliac Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06UF0KZ	Supplement Right External Iliac Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UF37Z	Supplement Right External Iliac Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UF3JZ	Supplement Right External Iliac Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UF3KZ	Supplement Right External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UF47Z	Supplement Right External Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UF4JZ	Supplement Right External Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UF4KZ	Supplement Right External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UG07Z	Supplement Left External Iliac Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UG0JZ	Supplement Left External Iliac Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06UG0KZ	Supplement Left External Iliac Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UG37Z	Supplement Left External Iliac Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UG3JZ	Supplement Left External Iliac Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UG3KZ	Supplement Left External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UG47Z	Supplement Left External Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UG4JZ	Supplement Left External Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UG4KZ	Supplement Left External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UH07Z	Supplement Right Hypogastric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UH0JZ	Supplement Right Hypogastric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06UH0KZ	Supplement Right Hypogastric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UH37Z	Supplement Right Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UH3JZ	Supplement Right Hypogastric Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UH3KZ	Supplement Right Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06UH47Z	Supplement Right Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UH4JZ	Supplement Right Hypogastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UH4KZ	Supplement Right Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UJ07Z	Supplement Left Hypogastric Vein with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UJ0JZ	Supplement Left Hypogastric Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
06UJ0KZ	Supplement Left Hypogastric Vein with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
06UJ37Z	Supplement Left Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UJ3JZ	Supplement Left Hypogastric Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UJ3KZ	Supplement Left Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
06UJ47Z	Supplement Left Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UJ4JZ	Supplement Left Hypogastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06UJ4KZ	Supplement Left Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V00CZ	Restriction of Inferior Vena Cava with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V00DZ	Restriction of Inferior Vena Cava with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V00ZZ	Restriction of Inferior Vena Cava, Open Approach	Procedure	ICD-10-PCS
06V03CZ	Restriction of Inferior Vena Cava with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V03DZ	Restriction of Inferior Vena Cava with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V03ZZ	Restriction of Inferior Vena Cava, Percutaneous Approach	Procedure	ICD-10-PCS
06V04CZ	Restriction of Inferior Vena Cava with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V04DZ	Restriction of Inferior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V04ZZ	Restriction of Inferior Vena Cava, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V10CZ	Restriction of Splenic Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V10DZ	Restriction of Splenic Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V10ZZ	Restriction of Splenic Vein, Open Approach	Procedure	ICD-10-PCS
06V13CZ	Restriction of Splenic Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V13DZ	Restriction of Splenic Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V13ZZ	Restriction of Splenic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06V14CZ	Restriction of Splenic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06V14DZ	Restriction of Splenic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V14ZZ	Restriction of Splenic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V20CZ	Restriction of Gastric Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V20DZ	Restriction of Gastric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V20ZZ	Restriction of Gastric Vein, Open Approach	Procedure	ICD-10-PCS
06V23CZ	Restriction of Gastric Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V23DZ	Restriction of Gastric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V23ZZ	Restriction of Gastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06V24CZ	Restriction of Gastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V24DZ	Restriction of Gastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V24ZZ	Restriction of Gastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V30CZ	Restriction of Esophageal Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V30DZ	Restriction of Esophageal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V30ZZ	Restriction of Esophageal Vein, Open Approach	Procedure	ICD-10-PCS
06V33CZ	Restriction of Esophageal Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V33DZ	Restriction of Esophageal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V33ZZ	Restriction of Esophageal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06V34CZ	Restriction of Esophageal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V34DZ	Restriction of Esophageal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V34ZZ	Restriction of Esophageal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V40CZ	Restriction of Hepatic Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V40DZ	Restriction of Hepatic Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V40ZZ	Restriction of Hepatic Vein, Open Approach	Procedure	ICD-10-PCS
06V43CZ	Restriction of Hepatic Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V43DZ	Restriction of Hepatic Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V43ZZ	Restriction of Hepatic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06V44CZ	Restriction of Hepatic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V44DZ	Restriction of Hepatic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V44ZZ	Restriction of Hepatic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V50CZ	Restriction of Superior Mesenteric Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V50DZ	Restriction of Superior Mesenteric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V50ZZ	Restriction of Superior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06V53CZ	Restriction of Superior Mesenteric Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06V53DZ	Restriction of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V53ZZ	Restriction of Superior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06V54CZ	Restriction of Superior Mesenteric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V54DZ	Restriction of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V54ZZ	Restriction of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V60CZ	Restriction of Inferior Mesenteric Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V60DZ	Restriction of Inferior Mesenteric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V60ZZ	Restriction of Inferior Mesenteric Vein, Open Approach	Procedure	ICD-10-PCS
06V63CZ	Restriction of Inferior Mesenteric Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V63DZ	Restriction of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V63ZZ	Restriction of Inferior Mesenteric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06V64CZ	Restriction of Inferior Mesenteric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V64DZ	Restriction of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V64ZZ	Restriction of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V70CZ	Restriction of Colic Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V70DZ	Restriction of Colic Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V70ZZ	Restriction of Colic Vein, Open Approach	Procedure	ICD-10-PCS
06V73CZ	Restriction of Colic Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V73DZ	Restriction of Colic Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V73ZZ	Restriction of Colic Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06V74CZ	Restriction of Colic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V74DZ	Restriction of Colic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V74ZZ	Restriction of Colic Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V80CZ	Restriction of Portal Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V80DZ	Restriction of Portal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V80ZZ	Restriction of Portal Vein, Open Approach	Procedure	ICD-10-PCS
06V83CZ	Restriction of Portal Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V83DZ	Restriction of Portal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V83ZZ	Restriction of Portal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06V84CZ	Restriction of Portal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V84DZ	Restriction of Portal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V84ZZ	Restriction of Portal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V90CZ	Restriction of Right Renal Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06V90DZ	Restriction of Right Renal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06V90ZZ	Restriction of Right Renal Vein, Open Approach	Procedure	ICD-10-PCS
06V93CZ	Restriction of Right Renal Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V93DZ	Restriction of Right Renal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06V93ZZ	Restriction of Right Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06V94CZ	Restriction of Right Renal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V94DZ	Restriction of Right Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06V94ZZ	Restriction of Right Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VB0CZ	Restriction of Left Renal Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VB0DZ	Restriction of Left Renal Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VB0ZZ	Restriction of Left Renal Vein, Open Approach	Procedure	ICD-10-PCS
06VB3CZ	Restriction of Left Renal Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VB3DZ	Restriction of Left Renal Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VB3ZZ	Restriction of Left Renal Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06VB4CZ	Restriction of Left Renal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VB4DZ	Restriction of Left Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VB4ZZ	Restriction of Left Renal Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VC0CZ	Restriction of Right Common Iliac Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VC0DZ	Restriction of Right Common Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VC0ZZ	Restriction of Right Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06VC3CZ	Restriction of Right Common Iliac Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VC3DZ	Restriction of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VC3ZZ	Restriction of Right Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06VC4CZ	Restriction of Right Common Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VC4DZ	Restriction of Right Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VC4ZZ	Restriction of Right Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VD0CZ	Restriction of Left Common Iliac Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VD0DZ	Restriction of Left Common Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VD0ZZ	Restriction of Left Common Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06VD3CZ	Restriction of Left Common Iliac Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VD3DZ	Restriction of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06VD3ZZ	Restriction of Left Common Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06VD4CZ	Restriction of Left Common Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VD4DZ	Restriction of Left Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VD4ZZ	Restriction of Left Common Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VF0CZ	Restriction of Right External Iliac Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VF0DZ	Restriction of Right External Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VF0ZZ	Restriction of Right External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06VF3CZ	Restriction of Right External Iliac Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VF3DZ	Restriction of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VF3ZZ	Restriction of Right External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06VF4CZ	Restriction of Right External Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VF4DZ	Restriction of Right External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VF4ZZ	Restriction of Right External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VG0CZ	Restriction of Left External Iliac Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VG0DZ	Restriction of Left External Iliac Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VG0ZZ	Restriction of Left External Iliac Vein, Open Approach	Procedure	ICD-10-PCS
06VG3CZ	Restriction of Left External Iliac Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VG3DZ	Restriction of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VG3ZZ	Restriction of Left External Iliac Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06VG4CZ	Restriction of Left External Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VG4DZ	Restriction of Left External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VG4ZZ	Restriction of Left External Iliac Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VH0CZ	Restriction of Right Hypogastric Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VH0DZ	Restriction of Right Hypogastric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VH0ZZ	Restriction of Right Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06VH3CZ	Restriction of Right Hypogastric Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VH3DZ	Restriction of Right Hypogastric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VH3ZZ	Restriction of Right Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06VH4CZ	Restriction of Right Hypogastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VH4DZ	Restriction of Right Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VH4ZZ	Restriction of Right Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
06VJ0CZ	Restriction of Left Hypogastric Vein with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VJ0DZ	Restriction of Left Hypogastric Vein with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
06VJ0ZZ	Restriction of Left Hypogastric Vein, Open Approach	Procedure	ICD-10-PCS
06VJ3CZ	Restriction of Left Hypogastric Vein with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VJ3DZ	Restriction of Left Hypogastric Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
06VJ3ZZ	Restriction of Left Hypogastric Vein, Percutaneous Approach	Procedure	ICD-10-PCS
06VJ4CZ	Restriction of Left Hypogastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VJ4DZ	Restriction of Left Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
06VJ4ZZ	Restriction of Left Hypogastric Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07100ZL	Bypass Head Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07104ZL	Bypass Head Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07110ZL	Bypass Right Neck Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07114ZL	Bypass Right Neck Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07120ZL	Bypass Left Neck Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07124ZL	Bypass Left Neck Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07130ZL	Bypass Right Upper Extremity Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07134ZL	Bypass Right Upper Extremity Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07140ZL	Bypass Left Upper Extremity Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07144ZL	Bypass Left Upper Extremity Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07150ZL	Bypass Right Axillary Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07154ZL	Bypass Right Axillary Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07160ZL	Bypass Left Axillary Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07164ZL	Bypass Left Axillary Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07170ZL	Bypass Thorax Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07174ZL	Bypass Thorax Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07180ZL	Bypass Right Internal Mammary Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07184ZL	Bypass Right Internal Mammary Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07190ZL	Bypass Left Internal Mammary Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07194ZL	Bypass Left Internal Mammary Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071B0Z3	Bypass Mesenteric Lymphatic to Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
071B0Z4	Bypass Mesenteric Lymphatic to Central Vein, Open Approach	Procedure	ICD-10-PCS
071B0Z7	Bypass Mesenteric Lymphatic to Lymphatic, Open Approach	Procedure	ICD-10-PCS
071B0ZK	Bypass Mesenteric Lymphatic to Thoracic Duct, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
071B0ZL	Bypass Mesenteric Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
071B4Z3	Bypass Mesenteric Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071B4Z4	Bypass Mesenteric Lymphatic to Central Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071B4Z7	Bypass Mesenteric Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071B4ZK	Bypass Mesenteric Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071B4ZL	Bypass Mesenteric Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071C0ZL	Bypass Pelvis Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
071C4ZL	Bypass Pelvis Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071D0ZL	Bypass Aortic Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
071D4ZL	Bypass Aortic Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071F0ZL	Bypass Right Lower Extremity Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
071F4ZL	Bypass Right Lower Extremity Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071G0ZL	Bypass Left Lower Extremity Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
071G4ZL	Bypass Left Lower Extremity Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071H0ZL	Bypass Right Inguinal Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
071H4ZL	Bypass Right Inguinal Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071J0ZL	Bypass Left Inguinal Lymphatic to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
071J4ZL	Bypass Left Inguinal Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071K0ZL	Bypass Thoracic Duct to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
071K4ZL	Bypass Thoracic Duct to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071L0Z3	Bypass Cisterna Chyli to Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
071L0Z4	Bypass Cisterna Chyli to Central Vein, Open Approach	Procedure	ICD-10-PCS
071L0Z7	Bypass Cisterna Chyli to Lymphatic, Open Approach	Procedure	ICD-10-PCS
071L0ZK	Bypass Cisterna Chyli to Thoracic Duct, Open Approach	Procedure	ICD-10-PCS
071L0ZL	Bypass Cisterna Chyli to Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
071L4Z3	Bypass Cisterna Chyli to Peripheral Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071L4Z4	Bypass Cisterna Chyli to Central Vein, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071L4Z7	Bypass Cisterna Chyli to Lymphatic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071L4ZK	Bypass Cisterna Chyli to Thoracic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
071L4ZL	Bypass Cisterna Chyli to Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
075B0ZZ	Destruction of Mesenteric Lymphatic, Open Approach	Procedure	ICD-10-PCS
075B3ZZ	Destruction of Mesenteric Lymphatic, Percutaneous Approach	Procedure	ICD-10-PCS
075B4ZZ	Destruction of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
075L0ZZ	Destruction of Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
075L3ZZ	Destruction of Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
075L4ZZ	Destruction of Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
075P0ZZ	Destruction of Spleen, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
075P3ZZ	Destruction of Spleen, Percutaneous Approach	Procedure	ICD-10-PCS
075P4ZZ	Destruction of Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
079B00Z	Drainage of Mesenteric Lymphatic with Drainage Device, Open Approach	Procedure	ICD-10-PCS
079B0ZZ	Drainage of Mesenteric Lymphatic, Open Approach	Procedure	ICD-10-PCS
079B40Z	Drainage of Mesenteric Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
079B4ZZ	Drainage of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
079L00Z	Drainage of Cisterna Chyli with Drainage Device, Open Approach	Procedure	ICD-10-PCS
079L0ZZ	Drainage of Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
079L40Z	Drainage of Cisterna Chyli with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
079L4ZZ	Drainage of Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
079P00Z	Drainage of Spleen with Drainage Device, Open Approach	Procedure	ICD-10-PCS
079P0ZZ	Drainage of Spleen, Open Approach	Procedure	ICD-10-PCS
079P40Z	Drainage of Spleen with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
079P4ZZ	Drainage of Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07BB0ZZ	Excision of Mesenteric Lymphatic, Open Approach	Procedure	ICD-10-PCS
07BB3ZZ	Excision of Mesenteric Lymphatic, Percutaneous Approach	Procedure	ICD-10-PCS
07BB4ZZ	Excision of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07BL0ZZ	Excision of Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07BL3ZZ	Excision of Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07BL4ZZ	Excision of Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07BP0ZZ	Excision of Spleen, Open Approach	Procedure	ICD-10-PCS
07BP3ZZ	Excision of Spleen, Percutaneous Approach	Procedure	ICD-10-PCS
07BP4ZZ	Excision of Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07CB0ZZ	Extirpation of Matter from Mesenteric Lymphatic, Open Approach	Procedure	ICD-10-PCS
07CB3ZZ	Extirpation of Matter from Mesenteric Lymphatic, Percutaneous Approach	Procedure	ICD-10-PCS
07CB4ZZ	Extirpation of Matter from Mesenteric Lymphatic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07CL0ZZ	Extirpation of Matter from Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07CL3ZZ	Extirpation of Matter from Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07CL4ZZ	Extirpation of Matter from Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07CP0ZZ	Extirpation of Matter from Spleen, Open Approach	Procedure	ICD-10-PCS
07CP4ZZ	Extirpation of Matter from Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07HL01Z	Insertion of Radioactive Element into Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07HL03Z	Insertion of Infusion Device into Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07HL0YZ	Insertion of Other Device into Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07HL41Z	Insertion of Radioactive Element into Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07HL43Z	Insertion of Infusion Device into Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07HL4YZ	Insertion of Other Device into Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07HP01Z	Insertion of Radioactive Element into Spleen, Open Approach	Procedure	ICD-10-PCS
07HP03Z	Insertion of Infusion Device into Spleen, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
07HP0YZ	Insertion of Other Device into Spleen, Open Approach	Procedure	ICD-10-PCS
07HP41Z	Insertion of Radioactive Element into Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07HP43Z	Insertion of Infusion Device into Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07HP4YZ	Insertion of Other Device into Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07LL0CZ	Occlusion of Cisterna Chyli with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
07LL0DZ	Occlusion of Cisterna Chyli with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
07LL0ZZ	Occlusion of Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07LL3CZ	Occlusion of Cisterna Chyli with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
07LL3DZ	Occlusion of Cisterna Chyli with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
07LL3ZZ	Occlusion of Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07LL4CZ	Occlusion of Cisterna Chyli with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07LL4DZ	Occlusion of Cisterna Chyli with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07LL4ZZ	Occlusion of Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07NL0ZZ	Release Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07NL3ZZ	Release Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07NL4ZZ	Release Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07NP0ZZ	Release Spleen, Open Approach	Procedure	ICD-10-PCS
07NP3ZZ	Release Spleen, Percutaneous Approach	Procedure	ICD-10-PCS
07NP4ZZ	Release Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07PL00Z	Removal of Drainage Device from Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07PL03Z	Removal of Infusion Device from Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07PL07Z	Removal of Autologous Tissue Substitute from Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07PL0CZ	Removal of Extraluminal Device from Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07PL0DZ	Removal of Intraluminal Device from Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07PL0JZ	Removal of Synthetic Substitute from Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07PL0KZ	Removal of Nonautologous Tissue Substitute from Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07PL0YZ	Removal of Other Device from Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07PL30Z	Removal of Drainage Device from Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07PL33Z	Removal of Infusion Device from Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07PL37Z	Removal of Autologous Tissue Substitute from Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07PL3CZ	Removal of Extraluminal Device from Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07PL3DZ	Removal of Intraluminal Device from Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07PL3JZ	Removal of Synthetic Substitute from Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07PL3KZ	Removal of Nonautologous Tissue Substitute from Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07PL40Z	Removal of Drainage Device from Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07PL43Z	Removal of Infusion Device from Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
07PL47Z	Removal of Autologous Tissue Substitute from Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07PL4CZ	Removal of Extraluminal Device from Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07PL4DZ	Removal of Intraluminal Device from Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07PL4JZ	Removal of Synthetic Substitute from Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07PL4KZ	Removal of Nonautologous Tissue Substitute from Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07PL4YZ	Removal of Other Device from Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07PP00Z	Removal of Drainage Device from Spleen, Open Approach	Procedure	ICD-10-PCS
07PP03Z	Removal of Infusion Device from Spleen, Open Approach	Procedure	ICD-10-PCS
07PP0YZ	Removal of Other Device from Spleen, Open Approach	Procedure	ICD-10-PCS
07PP30Z	Removal of Drainage Device from Spleen, Percutaneous Approach	Procedure	ICD-10-PCS
07PP33Z	Removal of Infusion Device from Spleen, Percutaneous Approach	Procedure	ICD-10-PCS
07PP40Z	Removal of Drainage Device from Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07PP43Z	Removal of Infusion Device from Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07PP4YZ	Removal of Other Device from Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07QL0ZZ	Repair Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07QL3ZZ	Repair Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07QL4ZZ	Repair Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07QL8ZZ	Repair Cisterna Chyli, Via Natural or Artificial Opening Endoscopic Approach	Procedure	ICD-10-PCS
07QP0ZZ	Repair Spleen, Open Approach	Procedure	ICD-10-PCS
07QP3ZZ	Repair Spleen, Percutaneous Approach	Procedure	ICD-10-PCS
07QP4ZZ	Repair Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07SP0ZZ	Reposition Spleen, Open Approach	Procedure	ICD-10-PCS
07TB0ZZ	Resection of Mesenteric Lymphatic, Open Approach	Procedure	ICD-10-PCS
07TB4ZZ	Resection of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07TL0ZZ	Resection of Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07TL4ZZ	Resection of Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07TP0ZZ	Resection of Spleen, Open Approach	Procedure	ICD-10-PCS
07TP4ZG	Resection of spleen, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
07TP4ZZ	Resection of Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07UB07Z	Supplement Mesenteric Lymphatic with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
07UB0JZ	Supplement Mesenteric Lymphatic with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
07UB0KZ	Supplement Mesenteric Lymphatic with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
07UB47Z	Supplement Mesenteric Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07UB4JZ	Supplement Mesenteric Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
07UB4KZ	Supplement Mesenteric Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07UL07Z	Supplement Cisterna Chyli with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
07UL0JZ	Supplement Cisterna Chyli with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
07UL0KZ	Supplement Cisterna Chyli with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
07UL47Z	Supplement Cisterna Chyli with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07UL4JZ	Supplement Cisterna Chyli with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07UL4KZ	Supplement Cisterna Chyli with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07VB0CZ	Restriction of Mesenteric Lymphatic with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
07VB0DZ	Restriction of Mesenteric Lymphatic with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
07VB0ZZ	Restriction of Mesenteric Lymphatic, Open Approach	Procedure	ICD-10-PCS
07VB3CZ	Restriction of Mesenteric Lymphatic with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
07VB3DZ	Restriction of Mesenteric Lymphatic with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
07VB3ZZ	Restriction of Mesenteric Lymphatic, Percutaneous Approach	Procedure	ICD-10-PCS
07VB4CZ	Restriction of Mesenteric Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07VB4DZ	Restriction of Mesenteric Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07VB4ZZ	Restriction of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07VL0CZ	Restriction of Cisterna Chyli with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
07VL0DZ	Restriction of Cisterna Chyli with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
07VL0ZZ	Restriction of Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07VL3CZ	Restriction of Cisterna Chyli with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
07VL3DZ	Restriction of Cisterna Chyli with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
07VL3ZZ	Restriction of Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07VL4CZ	Restriction of Cisterna Chyli with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07VL4DZ	Restriction of Cisterna Chyli with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07VL4ZZ	Restriction of Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WL00Z	Revision of Drainage Device in Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07WL03Z	Revision of Infusion Device in Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07WL07Z	Revision of Autologous Tissue Substitute in Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07WL0CZ	Revision of Extraluminal Device in Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07WL0DZ	Revision of Intraluminal Device in Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07WL0JZ	Revision of Synthetic Substitute in Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07WL0KZ	Revision of Nonautologous Tissue Substitute in Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07WL0YZ	Revision of Other Device in Cisterna Chyli, Open Approach	Procedure	ICD-10-PCS
07WL30Z	Revision of Drainage Device in Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
07WL33Z	Revision of Infusion Device in Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07WL37Z	Revision of Autologous Tissue Substitute in Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07WL3CZ	Revision of Extraluminal Device in Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07WL3DZ	Revision of Intraluminal Device in Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07WL3JZ	Revision of Synthetic Substitute in Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07WL3KZ	Revision of Nonautologous Tissue Substitute in Cisterna Chyli, Percutaneous Approach	Procedure	ICD-10-PCS
07WL40Z	Revision of Drainage Device in Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WL43Z	Revision of Infusion Device in Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WL47Z	Revision of Autologous Tissue Substitute in Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WL4CZ	Revision of Extraluminal Device in Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WL4DZ	Revision of Intraluminal Device in Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WL4JZ	Revision of Synthetic Substitute in Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WL4KZ	Revision of Nonautologous Tissue Substitute in Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WL4YZ	Revision of Other Device in Cisterna Chyli, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WP00Z	Revision of Drainage Device in Spleen, Open Approach	Procedure	ICD-10-PCS
07WP03Z	Revision of Infusion Device in Spleen, Open Approach	Procedure	ICD-10-PCS
07WP0YZ	Revision of Other Device in Spleen, Open Approach	Procedure	ICD-10-PCS
07WP30Z	Revision of Drainage Device in Spleen, Percutaneous Approach	Procedure	ICD-10-PCS
07WP33Z	Revision of Infusion Device in Spleen, Percutaneous Approach	Procedure	ICD-10-PCS
07WP40Z	Revision of Drainage Device in Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WP43Z	Revision of Infusion Device in Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07WP4YZ	Revision of Other Device in Spleen, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
07YP0Z0	Transplantation of Spleen, Allogeneic, Open Approach	Procedure	ICD-10-PCS
07YP0Z1	Transplantation of Spleen, Syngeneic, Open Approach	Procedure	ICD-10-PCS
07YP0Z2	Transplantation of Spleen, Zooplastic, Open Approach	Procedure	ICD-10-PCS
091E070	Bypass Left Inner Ear to Endolymphatic with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D11076	Bypass Upper Esophagus to Stomach with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D11079	Bypass Upper Esophagus to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1107A	Bypass Upper Esophagus to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1107B	Bypass Upper Esophagus to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D110J6	Bypass Upper Esophagus to Stomach with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D110J9	Bypass Upper Esophagus to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D110JA	Bypass Upper Esophagus to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D110JB	Bypass Upper Esophagus to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D110K6	Bypass Upper Esophagus to Stomach with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D110K9	Bypass Upper Esophagus to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D110KA	Bypass Upper Esophagus to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D110KB	Bypass Upper Esophagus to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D110Z6	Bypass Upper Esophagus to Stomach, Open Approach	Procedure	ICD-10-PCS
0D110Z9	Bypass Upper Esophagus to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D110ZA	Bypass Upper Esophagus to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D110ZB	Bypass Upper Esophagus to Ileum, Open Approach	Procedure	ICD-10-PCS
0D11476	Bypass Upper Esophagus to Stomach with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D11479	Bypass Upper Esophagus to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1147A	Bypass Upper Esophagus to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1147B	Bypass Upper Esophagus to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114J6	Bypass Upper Esophagus to Stomach with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114J9	Bypass Upper Esophagus to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114JA	Bypass Upper Esophagus to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114JB	Bypass Upper Esophagus to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114K6	Bypass Upper Esophagus to Stomach with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114K9	Bypass Upper Esophagus to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114KA	Bypass Upper Esophagus to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114KB	Bypass Upper Esophagus to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114Z6	Bypass Upper Esophagus to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114Z9	Bypass Upper Esophagus to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114ZA	Bypass Upper Esophagus to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D114ZB	Bypass Upper Esophagus to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D11876	Bypass Upper Esophagus to Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D11879	Bypass Upper Esophagus to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1187A	Bypass Upper Esophagus to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1187B	Bypass Upper Esophagus to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118J6	Bypass Upper Esophagus to Stomach with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118J9	Bypass Upper Esophagus to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118JA	Bypass Upper Esophagus to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118JB	Bypass Upper Esophagus to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118K6	Bypass Upper Esophagus to Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118K9	Bypass Upper Esophagus to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118KA	Bypass Upper Esophagus to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118KB	Bypass Upper Esophagus to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118Z6	Bypass Upper Esophagus to Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118Z9	Bypass Upper Esophagus to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118ZA	Bypass Upper Esophagus to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D118ZB	Bypass Upper Esophagus to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D12076	Bypass Middle Esophagus to Stomach with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D12079	Bypass Middle Esophagus to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1207A	Bypass Middle Esophagus to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1207B	Bypass Middle Esophagus to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D120J6	Bypass Middle Esophagus to Stomach with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D120J9	Bypass Middle Esophagus to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D120JA	Bypass Middle Esophagus to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D120JB	Bypass Middle Esophagus to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D120K6	Bypass Middle Esophagus to Stomach with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D120K9	Bypass Middle Esophagus to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D120KA	Bypass Middle Esophagus to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D120KB	Bypass Middle Esophagus to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D120Z6	Bypass Middle Esophagus to Stomach, Open Approach	Procedure	ICD-10-PCS
0D120Z9	Bypass Middle Esophagus to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D120ZA	Bypass Middle Esophagus to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D120ZB	Bypass Middle Esophagus to Ileum, Open Approach	Procedure	ICD-10-PCS
0D12476	Bypass Middle Esophagus to Stomach with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D12479	Bypass Middle Esophagus to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1247A	Bypass Middle Esophagus to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1247B	Bypass Middle Esophagus to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124J6	Bypass Middle Esophagus to Stomach with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124J9	Bypass Middle Esophagus to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124JA	Bypass Middle Esophagus to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124JB	Bypass Middle Esophagus to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124K6	Bypass Middle Esophagus to Stomach with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124K9	Bypass Middle Esophagus to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124KA	Bypass Middle Esophagus to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124KB	Bypass Middle Esophagus to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124Z6	Bypass Middle Esophagus to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124Z9	Bypass Middle Esophagus to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124ZA	Bypass Middle Esophagus to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D124ZB	Bypass Middle Esophagus to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D12876	Bypass Middle Esophagus to Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D12879	Bypass Middle Esophagus to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1287A	Bypass Middle Esophagus to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1287B	Bypass Middle Esophagus to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128J6	Bypass Middle Esophagus to Stomach with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128J9	Bypass Middle Esophagus to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128JA	Bypass Middle Esophagus to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128JB	Bypass Middle Esophagus to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128K6	Bypass Middle Esophagus to Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128K9	Bypass Middle Esophagus to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128KA	Bypass Middle Esophagus to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128KB	Bypass Middle Esophagus to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128Z6	Bypass Middle Esophagus to Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128Z9	Bypass Middle Esophagus to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128ZA	Bypass Middle Esophagus to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D128ZB	Bypass Middle Esophagus to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D13076	Bypass Lower Esophagus to Stomach with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D13079	Bypass Lower Esophagus to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1307A	Bypass Lower Esophagus to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1307B	Bypass Lower Esophagus to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D130J6	Bypass Lower Esophagus to Stomach with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D130J9	Bypass Lower Esophagus to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D130JA	Bypass Lower Esophagus to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D130JB	Bypass Lower Esophagus to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D130K6	Bypass Lower Esophagus to Stomach with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D130K9	Bypass Lower Esophagus to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D130KA	Bypass Lower Esophagus to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D130KB	Bypass Lower Esophagus to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D130Z6	Bypass Lower Esophagus to Stomach, Open Approach	Procedure	ICD-10-PCS
0D130Z9	Bypass Lower Esophagus to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D130ZA	Bypass Lower Esophagus to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D130ZB	Bypass Lower Esophagus to Ileum, Open Approach	Procedure	ICD-10-PCS
0D13476	Bypass Lower Esophagus to Stomach with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D13479	Bypass Lower Esophagus to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1347A	Bypass Lower Esophagus to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1347B	Bypass Lower Esophagus to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134J6	Bypass Lower Esophagus to Stomach with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134J9	Bypass Lower Esophagus to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134JA	Bypass Lower Esophagus to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134JB	Bypass Lower Esophagus to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134K6	Bypass Lower Esophagus to Stomach with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134K9	Bypass Lower Esophagus to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134KA	Bypass Lower Esophagus to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134KB	Bypass Lower Esophagus to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134Z6	Bypass Lower Esophagus to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134Z9	Bypass Lower Esophagus to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134ZA	Bypass Lower Esophagus to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D134ZB	Bypass Lower Esophagus to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D13876	Bypass Lower Esophagus to Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D13879	Bypass Lower Esophagus to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1387A	Bypass Lower Esophagus to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1387B	Bypass Lower Esophagus to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D138J6	Bypass Lower Esophagus to Stomach with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138J9	Bypass Lower Esophagus to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138JA	Bypass Lower Esophagus to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138JB	Bypass Lower Esophagus to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138K6	Bypass Lower Esophagus to Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138K9	Bypass Lower Esophagus to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138KA	Bypass Lower Esophagus to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138KB	Bypass Lower Esophagus to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138Z6	Bypass Lower Esophagus to Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138Z9	Bypass Lower Esophagus to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138ZA	Bypass Lower Esophagus to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D138ZB	Bypass Lower Esophagus to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D15076	Bypass Esophagus to Stomach with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D15079	Bypass Esophagus to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1507A	Bypass Esophagus to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1507B	Bypass Esophagus to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D150J6	Bypass Esophagus to Stomach with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D150J9	Bypass Esophagus to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D150JA	Bypass Esophagus to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D150JB	Bypass Esophagus to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D150K6	Bypass Esophagus to Stomach with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D150K9	Bypass Esophagus to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D150KA	Bypass Esophagus to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D150KB	Bypass Esophagus to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D150Z6	Bypass Esophagus to Stomach, Open Approach	Procedure	ICD-10-PCS
0D150Z9	Bypass Esophagus to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D150ZA	Bypass Esophagus to Jejunum, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D150ZB	Bypass Esophagus to Ileum, Open Approach	Procedure	ICD-10-PCS
0D15476	Bypass Esophagus to Stomach with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D15479	Bypass Esophagus to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1547A	Bypass Esophagus to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1547B	Bypass Esophagus to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154J6	Bypass Esophagus to Stomach with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154J9	Bypass Esophagus to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154JA	Bypass Esophagus to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154JB	Bypass Esophagus to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154K6	Bypass Esophagus to Stomach with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154K9	Bypass Esophagus to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154KA	Bypass Esophagus to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154KB	Bypass Esophagus to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154Z6	Bypass Esophagus to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154Z9	Bypass Esophagus to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154ZA	Bypass Esophagus to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D154ZB	Bypass Esophagus to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D15876	Bypass Esophagus to Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D15879	Bypass Esophagus to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1587A	Bypass Esophagus to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1587B	Bypass Esophagus to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158J6	Bypass Esophagus to Stomach with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158J9	Bypass Esophagus to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158JA	Bypass Esophagus to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158JB	Bypass Esophagus to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D158K6	Bypass Esophagus to Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158K9	Bypass Esophagus to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158KA	Bypass Esophagus to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158KB	Bypass Esophagus to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158Z6	Bypass Esophagus to Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158Z9	Bypass Esophagus to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158ZA	Bypass Esophagus to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D158ZB	Bypass Esophagus to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D16074	Bypass Stomach to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D16079	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160J4	Bypass Stomach to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160J9	Bypass Stomach to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JA	Bypass Stomach to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JB	Bypass Stomach to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160K4	Bypass Stomach to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160Z4	Bypass Stomach to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D160Z9	Bypass Stomach to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D160ZA	Bypass Stomach to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D160ZB	Bypass Stomach to Ileum, Open Approach	Procedure	ICD-10-PCS
0D160ZL	Bypass Stomach to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D16474	Bypass Stomach to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D16479	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1647A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1647B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1647L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164J4	Bypass Stomach to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164J9	Bypass Stomach to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JA	Bypass Stomach to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JB	Bypass Stomach to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164K4	Bypass Stomach to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164Z4	Bypass Stomach to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164Z9	Bypass Stomach to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZA	Bypass Stomach to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZB	Bypass Stomach to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZL	Bypass Stomach to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D16879	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168J9	Bypass Stomach to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JA	Bypass Stomach to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JB	Bypass Stomach to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D168JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168Z9	Bypass Stomach to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZA	Bypass Stomach to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZB	Bypass Stomach to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZL	Bypass Stomach to Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D18074	Bypass Small Intestine to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D18078	Bypass Small Intestine to Small Intestine with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1807H	Bypass Small Intestine to Cecum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1807K	Bypass Small Intestine to Ascending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1807L	Bypass Small Intestine to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1807M	Bypass Small Intestine to Descending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1807N	Bypass Small Intestine to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1807P	Bypass Small Intestine to Rectum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1807Q	Bypass Small Intestine to Anus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D180J4	Bypass Small Intestine to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D180J8	Bypass Small Intestine to Small Intestine with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D180JH	Bypass Small Intestine to Cecum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D180JK	Bypass Small Intestine to Ascending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D180JL	Bypass Small Intestine to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D180JM	Bypass Small Intestine to Descending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D180JN	Bypass Small Intestine to Sigmoid Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D180JP	Bypass Small Intestine to Rectum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D180JQ	Bypass Small Intestine to Anus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D180K4	Bypass Small Intestine to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D180K8	Bypass Small Intestine to Small Intestine with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D180KH	Bypass Small Intestine to Cecum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D180KK	Bypass Small Intestine to Ascending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D180KL	Bypass Small Intestine to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D180KM	Bypass Small Intestine to Descending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D180KN	Bypass Small Intestine to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D180KP	Bypass Small Intestine to Rectum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D180KQ	Bypass Small Intestine to Anus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D180Z4	Bypass Small Intestine to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D180Z8	Bypass Small Intestine to Small Intestine, Open Approach	Procedure	ICD-10-PCS
0D180ZH	Bypass Small Intestine to Cecum, Open Approach	Procedure	ICD-10-PCS
0D180ZK	Bypass Small Intestine to Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0D180ZL	Bypass Small Intestine to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D180ZM	Bypass Small Intestine to Descending Colon, Open Approach	Procedure	ICD-10-PCS
0D180ZN	Bypass Small Intestine to Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D180ZP	Bypass Small Intestine to Rectum, Open Approach	Procedure	ICD-10-PCS
0D180ZQ	Bypass Small Intestine to Anus, Open Approach	Procedure	ICD-10-PCS
0D18474	Bypass Small Intestine to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D18478	Bypass Small Intestine to Small Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1847H	Bypass Small Intestine to Cecum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1847K	Bypass Small Intestine to Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1847L	Bypass Small Intestine to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1847M	Bypass Small Intestine to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1847N	Bypass Small Intestine to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1847P	Bypass Small Intestine to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1847Q	Bypass Small Intestine to Anus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184J4	Bypass Small Intestine to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184J8	Bypass Small Intestine to Small Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184JH	Bypass Small Intestine to Cecum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184JK	Bypass Small Intestine to Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184JL	Bypass Small Intestine to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184JM	Bypass Small Intestine to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184JN	Bypass Small Intestine to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184JP	Bypass Small Intestine to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184JQ	Bypass Small Intestine to Anus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184K4	Bypass Small Intestine to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184K8	Bypass Small Intestine to Small Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184KH	Bypass Small Intestine to Cecum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184KK	Bypass Small Intestine to Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184KL	Bypass Small Intestine to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184KM	Bypass Small Intestine to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184KN	Bypass Small Intestine to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184KP	Bypass Small Intestine to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184KQ	Bypass Small Intestine to Anus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184Z4	Bypass Small Intestine to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184Z8	Bypass Small Intestine to Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184ZH	Bypass Small Intestine to Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184ZK	Bypass Small Intestine to Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184ZL	Bypass Small Intestine to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184ZM	Bypass Small Intestine to Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D184ZN	Bypass Small Intestine to Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184ZP	Bypass Small Intestine to Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D184ZQ	Bypass Small Intestine to Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D18874	Bypass Small Intestine to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D18878	Bypass Small Intestine to Small Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1887H	Bypass Small Intestine to Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1887K	Bypass Small Intestine to Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1887L	Bypass Small Intestine to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1887M	Bypass Small Intestine to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1887N	Bypass Small Intestine to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1887P	Bypass Small Intestine to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1887Q	Bypass Small Intestine to Anus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188J4	Bypass Small Intestine to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188J8	Bypass Small Intestine to Small Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188JH	Bypass Small Intestine to Cecum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188JK	Bypass Small Intestine to Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188JL	Bypass Small Intestine to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188JM	Bypass Small Intestine to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188JN	Bypass Small Intestine to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188JP	Bypass Small Intestine to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188JQ	Bypass Small Intestine to Anus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188K4	Bypass Small Intestine to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188K8	Bypass Small Intestine to Small Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188KH	Bypass Small Intestine to Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D188KK	Bypass Small Intestine to Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188KL	Bypass Small Intestine to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188KM	Bypass Small Intestine to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188KN	Bypass Small Intestine to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188KP	Bypass Small Intestine to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188KQ	Bypass Small Intestine to Anus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188Z4	Bypass Small Intestine to Cutaneous, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188Z8	Bypass Small Intestine to Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188ZH	Bypass Small Intestine to Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188ZK	Bypass Small Intestine to Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188ZL	Bypass Small Intestine to Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188ZM	Bypass Small Intestine to Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188ZN	Bypass Small Intestine to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188ZP	Bypass Small Intestine to Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D188ZQ	Bypass Small Intestine to Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D19074	Bypass Duodenum to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D19079	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1907A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1907B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1907L	Bypass Duodenum to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190J4	Bypass Duodenum to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190JB	Bypass Duodenum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190JL	Bypass Duodenum to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190K4	Bypass Duodenum to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D190K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190KL	Bypass Duodenum to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190Z4	Bypass Duodenum to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D190Z9	Bypass Duodenum to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D190ZA	Bypass Duodenum to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D190ZB	Bypass Duodenum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D190ZL	Bypass Duodenum to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D193J4	Bypass Duodenum to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0D19474	Bypass Duodenum to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D19479	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947L	Bypass Duodenum to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194J4	Bypass Duodenum to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JB	Bypass Duodenum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JL	Bypass Duodenum to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194K4	Bypass Duodenum to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KL	Bypass Duodenum to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D194Z4	Bypass Duodenum to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194Z9	Bypass Duodenum to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194ZA	Bypass Duodenum to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194ZB	Bypass Duodenum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194ZL	Bypass Duodenum to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D19874	Bypass Duodenum to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D19879	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1987A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1987B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1987L	Bypass Duodenum to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198J4	Bypass Duodenum to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198JB	Bypass Duodenum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198JL	Bypass Duodenum to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198K4	Bypass Duodenum to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198KL	Bypass Duodenum to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198Z4	Bypass Duodenum to Cutaneous, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198Z9	Bypass Duodenum to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198ZA	Bypass Duodenum to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198ZB	Bypass Duodenum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198ZL	Bypass Duodenum to Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A074	Bypass Jejunum to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1A07H	Bypass Jejunum to Cecum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07K	Bypass Jejunum to Ascending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07L	Bypass Jejunum to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07M	Bypass Jejunum to Descending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07N	Bypass Jejunum to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07P	Bypass Jejunum to Rectum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07Q	Bypass Jejunum to Anus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0J4	Bypass Jejunum to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JB	Bypass Jejunum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JH	Bypass Jejunum to Cecum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JK	Bypass Jejunum to Ascending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JL	Bypass Jejunum to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JM	Bypass Jejunum to Descending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JN	Bypass Jejunum to Sigmoid Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JP	Bypass Jejunum to Rectum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JQ	Bypass Jejunum to Anus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0K4	Bypass Jejunum to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KH	Bypass Jejunum to Cecum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KK	Bypass Jejunum to Ascending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KL	Bypass Jejunum to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KM	Bypass Jejunum to Descending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KN	Bypass Jejunum to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KP	Bypass Jejunum to Rectum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KQ	Bypass Jejunum to Anus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0Z4	Bypass Jejunum to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D1A0ZA	Bypass Jejunum to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D1A0ZB	Bypass Jejunum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D1A0ZH	Bypass Jejunum to Cecum, Open Approach	Procedure	ICD-10-PCS
0D1A0ZK	Bypass Jejunum to Ascending Colon, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1A0ZL	Bypass Jejunum to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D1A0ZM	Bypass Jejunum to Descending Colon, Open Approach	Procedure	ICD-10-PCS
0D1A0ZN	Bypass Jejunum to Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D1A0ZP	Bypass Jejunum to Rectum, Open Approach	Procedure	ICD-10-PCS
0D1A0ZQ	Bypass Jejunum to Anus, Open Approach	Procedure	ICD-10-PCS
0D1A3J4	Bypass Jejunum to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0D1A474	Bypass Jejunum to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47H	Bypass Jejunum to Cecum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47K	Bypass Jejunum to Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47L	Bypass Jejunum to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47M	Bypass Jejunum to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47N	Bypass Jejunum to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47P	Bypass Jejunum to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47Q	Bypass Jejunum to Anus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4J4	Bypass Jejunum to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JB	Bypass Jejunum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JH	Bypass Jejunum to Cecum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JK	Bypass Jejunum to Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JL	Bypass Jejunum to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JM	Bypass Jejunum to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JN	Bypass Jejunum to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JP	Bypass Jejunum to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1A4JQ	Bypass Jejunum to Anus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4K4	Bypass Jejunum to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KH	Bypass Jejunum to Cecum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KK	Bypass Jejunum to Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KL	Bypass Jejunum to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KM	Bypass Jejunum to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KN	Bypass Jejunum to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KP	Bypass Jejunum to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KQ	Bypass Jejunum to Anus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4Z4	Bypass Jejunum to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZA	Bypass Jejunum to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZB	Bypass Jejunum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZH	Bypass Jejunum to Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZK	Bypass Jejunum to Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZL	Bypass Jejunum to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZM	Bypass Jejunum to Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZN	Bypass Jejunum to Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZP	Bypass Jejunum to Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZQ	Bypass Jejunum to Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A874	Bypass Jejunum to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87H	Bypass Jejunum to Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87K	Bypass Jejunum to Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87L	Bypass Jejunum to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1A87M	Bypass Jejunum to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87N	Bypass Jejunum to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87P	Bypass Jejunum to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87Q	Bypass Jejunum to Anus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8J4	Bypass Jejunum to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JB	Bypass Jejunum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JH	Bypass Jejunum to Cecum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JK	Bypass Jejunum to Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JL	Bypass Jejunum to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JM	Bypass Jejunum to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JN	Bypass Jejunum to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JP	Bypass Jejunum to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JQ	Bypass Jejunum to Anus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8K4	Bypass Jejunum to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KH	Bypass Jejunum to Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KK	Bypass Jejunum to Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KL	Bypass Jejunum to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KM	Bypass Jejunum to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KN	Bypass Jejunum to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1A8KP	Bypass Jejunum to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KQ	Bypass Jejunum to Anus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8Z4	Bypass Jejunum to Cutaneous, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZA	Bypass Jejunum to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZB	Bypass Jejunum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZH	Bypass Jejunum to Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZK	Bypass Jejunum to Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZL	Bypass Jejunum to Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZM	Bypass Jejunum to Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZN	Bypass Jejunum to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZP	Bypass Jejunum to Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZQ	Bypass Jejunum to Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B074	Bypass Ileum to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B07B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B07H	Bypass Ileum to Cecum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B07K	Bypass Ileum to Ascending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B07L	Bypass Ileum to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B07M	Bypass Ileum to Descending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B07N	Bypass Ileum to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B07P	Bypass Ileum to Rectum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B07Q	Bypass Ileum to Anus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0J4	Bypass Ileum to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JB	Bypass Ileum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JH	Bypass Ileum to Cecum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JK	Bypass Ileum to Ascending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JL	Bypass Ileum to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JM	Bypass Ileum to Descending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JN	Bypass Ileum to Sigmoid Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JP	Bypass Ileum to Rectum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JQ	Bypass Ileum to Anus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0K4	Bypass Ileum to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KH	Bypass Ileum to Cecum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KK	Bypass Ileum to Ascending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1B0KL	Bypass Ileum to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KM	Bypass Ileum to Descending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KN	Bypass Ileum to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KP	Bypass Ileum to Rectum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KQ	Bypass Ileum to Anus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0Z4	Bypass Ileum to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D1B0ZB	Bypass Ileum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D1B0ZH	Bypass Ileum to Cecum, Open Approach	Procedure	ICD-10-PCS
0D1B0ZK	Bypass Ileum to Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0D1B0ZL	Bypass Ileum to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D1B0ZM	Bypass Ileum to Descending Colon, Open Approach	Procedure	ICD-10-PCS
0D1B0ZN	Bypass Ileum to Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D1B0ZP	Bypass Ileum to Rectum, Open Approach	Procedure	ICD-10-PCS
0D1B0ZQ	Bypass Ileum to Anus, Open Approach	Procedure	ICD-10-PCS
0D1B3J4	Bypass Ileum to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0D1B474	Bypass Ileum to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B47B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B47H	Bypass Ileum to Cecum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B47K	Bypass Ileum to Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B47L	Bypass Ileum to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B47M	Bypass Ileum to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B47N	Bypass Ileum to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B47P	Bypass Ileum to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B47Q	Bypass Ileum to Anus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4J4	Bypass Ileum to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JB	Bypass Ileum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JH	Bypass Ileum to Cecum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JK	Bypass Ileum to Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1B4JL	Bypass Ileum to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JM	Bypass Ileum to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JN	Bypass Ileum to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JP	Bypass Ileum to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JQ	Bypass Ileum to Anus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4K4	Bypass Ileum to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KH	Bypass Ileum to Cecum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KK	Bypass Ileum to Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KL	Bypass Ileum to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KM	Bypass Ileum to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KN	Bypass Ileum to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KP	Bypass Ileum to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KQ	Bypass Ileum to Anus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4Z4	Bypass Ileum to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZB	Bypass Ileum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZH	Bypass Ileum to Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZK	Bypass Ileum to Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZL	Bypass Ileum to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZM	Bypass Ileum to Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZN	Bypass Ileum to Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZP	Bypass Ileum to Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZQ	Bypass Ileum to Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B874	Bypass Ileum to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B87B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B87H	Bypass Ileum to Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B87K	Bypass Ileum to Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1B87L	Bypass Ileum to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B87M	Bypass Ileum to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B87N	Bypass Ileum to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B87P	Bypass Ileum to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B87Q	Bypass Ileum to Anus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8J4	Bypass Ileum to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JB	Bypass Ileum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JH	Bypass Ileum to Cecum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JK	Bypass Ileum to Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JL	Bypass Ileum to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JM	Bypass Ileum to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JN	Bypass Ileum to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JP	Bypass Ileum to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JQ	Bypass Ileum to Anus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8K4	Bypass Ileum to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KH	Bypass Ileum to Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KK	Bypass Ileum to Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KL	Bypass Ileum to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KM	Bypass Ileum to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KN	Bypass Ileum to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KP	Bypass Ileum to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1B8KQ	Bypass Ileum to Anus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8Z4	Bypass Ileum to Cutaneous, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZB	Bypass Ileum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZH	Bypass Ileum to Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZK	Bypass Ileum to Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZL	Bypass Ileum to Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZM	Bypass Ileum to Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZN	Bypass Ileum to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZP	Bypass Ileum to Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZQ	Bypass Ileum to Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E074	Bypass Large Intestine to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1E07E	Bypass Large Intestine to Large Intestine with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1E07P	Bypass Large Intestine to Rectum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1E0J4	Bypass Large Intestine to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1E0JE	Bypass Large Intestine to Large Intestine with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1E0JP	Bypass Large Intestine to Rectum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1E0K4	Bypass Large Intestine to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1E0KE	Bypass Large Intestine to Large Intestine with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1E0KP	Bypass Large Intestine to Rectum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1E0Z4	Bypass Large Intestine to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D1E0ZE	Bypass Large Intestine to Large Intestine, Open Approach	Procedure	ICD-10-PCS
0D1E0ZP	Bypass Large Intestine to Rectum, Open Approach	Procedure	ICD-10-PCS
0D1E474	Bypass Large Intestine to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E47E	Bypass Large Intestine to Large Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E47P	Bypass Large Intestine to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E4J4	Bypass Large Intestine to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E4JE	Bypass Large Intestine to Large Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E4JP	Bypass Large Intestine to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E4K4	Bypass Large Intestine to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1E4KE	Bypass Large Intestine to Large Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E4KP	Bypass Large Intestine to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E4Z4	Bypass Large Intestine to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E4ZE	Bypass Large Intestine to Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E4ZP	Bypass Large Intestine to Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1E874	Bypass Large Intestine to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E87E	Bypass Large Intestine to Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E87P	Bypass Large Intestine to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E8J4	Bypass Large Intestine to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E8JE	Bypass Large Intestine to Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E8JP	Bypass Large Intestine to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E8K4	Bypass Large Intestine to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E8KE	Bypass Large Intestine to Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E8KP	Bypass Large Intestine to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E8Z4	Bypass Large Intestine to Cutaneous, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E8ZE	Bypass Large Intestine to Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1E8ZP	Bypass Large Intestine to Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H074	Bypass Cecum to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H07H	Bypass Cecum to Cecum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H07K	Bypass Cecum to Ascending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H07L	Bypass Cecum to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H07M	Bypass Cecum to Descending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H07N	Bypass Cecum to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H07P	Bypass Cecum to Rectum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0J4	Bypass Cecum to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0JH	Bypass Cecum to Cecum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0JK	Bypass Cecum to Ascending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0JL	Bypass Cecum to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1H0JM	Bypass Cecum to Descending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0JN	Bypass Cecum to Sigmoid Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0JP	Bypass Cecum to Rectum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0K4	Bypass Cecum to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0KH	Bypass Cecum to Cecum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0KK	Bypass Cecum to Ascending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0KL	Bypass Cecum to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0KM	Bypass Cecum to Descending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0KN	Bypass Cecum to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0KP	Bypass Cecum to Rectum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1H0Z4	Bypass Cecum to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D1H0ZH	Bypass Cecum to Cecum, Open Approach	Procedure	ICD-10-PCS
0D1H0ZK	Bypass Cecum to Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0D1H0ZL	Bypass Cecum to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D1H0ZM	Bypass Cecum to Descending Colon, Open Approach	Procedure	ICD-10-PCS
0D1H0ZN	Bypass Cecum to Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D1H0ZP	Bypass Cecum to Rectum, Open Approach	Procedure	ICD-10-PCS
0D1H3J4	Bypass Cecum to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0D1H474	Bypass Cecum to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H47H	Bypass Cecum to Cecum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H47K	Bypass Cecum to Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H47L	Bypass Cecum to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H47M	Bypass Cecum to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H47N	Bypass Cecum to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H47P	Bypass Cecum to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4J4	Bypass Cecum to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4JH	Bypass Cecum to Cecum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4JK	Bypass Cecum to Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1H4JL	Bypass Cecum to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4JM	Bypass Cecum to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4JN	Bypass Cecum to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4JP	Bypass Cecum to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4K4	Bypass Cecum to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4KH	Bypass Cecum to Cecum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4KK	Bypass Cecum to Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4KL	Bypass Cecum to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4KM	Bypass Cecum to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4KN	Bypass Cecum to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4KP	Bypass Cecum to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4Z4	Bypass Cecum to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4ZH	Bypass Cecum to Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4ZK	Bypass Cecum to Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4ZL	Bypass Cecum to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4ZM	Bypass Cecum to Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4ZN	Bypass Cecum to Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H4ZP	Bypass Cecum to Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1H874	Bypass Cecum to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H87H	Bypass Cecum to Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H87K	Bypass Cecum to Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H87L	Bypass Cecum to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H87M	Bypass Cecum to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H87N	Bypass Cecum to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H87P	Bypass Cecum to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8J4	Bypass Cecum to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1H8JH	Bypass Cecum to Cecum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8JK	Bypass Cecum to Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8JL	Bypass Cecum to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8JM	Bypass Cecum to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8JN	Bypass Cecum to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8JP	Bypass Cecum to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8K4	Bypass Cecum to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8KH	Bypass Cecum to Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8KK	Bypass Cecum to Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8KL	Bypass Cecum to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8KM	Bypass Cecum to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8KN	Bypass Cecum to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8KP	Bypass Cecum to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8Z4	Bypass Cecum to Cutaneous, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8ZH	Bypass Cecum to Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8ZK	Bypass Cecum to Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8ZL	Bypass Cecum to Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8ZM	Bypass Cecum to Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8ZN	Bypass Cecum to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1H8ZP	Bypass Cecum to Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K074	Bypass Ascending Colon to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K07K	Bypass Ascending Colon to Ascending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K07L	Bypass Ascending Colon to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K07M	Bypass Ascending Colon to Descending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K07N	Bypass Ascending Colon to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1K07P	Bypass Ascending Colon to Rectum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0J4	Bypass Ascending Colon to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0JK	Bypass Ascending Colon to Ascending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0JL	Bypass Ascending Colon to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0JM	Bypass Ascending Colon to Descending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0JN	Bypass Ascending Colon to Sigmoid Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0JP	Bypass Ascending Colon to Rectum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0K4	Bypass Ascending Colon to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0KK	Bypass Ascending Colon to Ascending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0KL	Bypass Ascending Colon to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0KM	Bypass Ascending Colon to Descending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0KN	Bypass Ascending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0KP	Bypass Ascending Colon to Rectum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1K0Z4	Bypass Ascending Colon to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D1K0ZK	Bypass Ascending Colon to Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0D1K0ZL	Bypass Ascending Colon to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D1K0ZM	Bypass Ascending Colon to Descending Colon, Open Approach	Procedure	ICD-10-PCS
0D1K0ZN	Bypass Ascending Colon to Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D1K0ZP	Bypass Ascending Colon to Rectum, Open Approach	Procedure	ICD-10-PCS
0D1K3J4	Bypass Ascending Colon to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0D1K474	Bypass Ascending Colon to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K47K	Bypass Ascending Colon to Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K47L	Bypass Ascending Colon to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K47M	Bypass Ascending Colon to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K47N	Bypass Ascending Colon to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K47P	Bypass Ascending Colon to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1K4J4	Bypass Ascending Colon to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4JK	Bypass Ascending Colon to Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4JL	Bypass Ascending Colon to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4JM	Bypass Ascending Colon to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4JN	Bypass Ascending Colon to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4JP	Bypass Ascending Colon to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4K4	Bypass Ascending Colon to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4KK	Bypass Ascending Colon to Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4KL	Bypass Ascending Colon to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4KM	Bypass Ascending Colon to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4KN	Bypass Ascending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4KP	Bypass Ascending Colon to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4Z4	Bypass Ascending Colon to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4ZK	Bypass Ascending Colon to Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4ZL	Bypass Ascending Colon to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4ZM	Bypass Ascending Colon to Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4ZN	Bypass Ascending Colon to Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K4ZP	Bypass Ascending Colon to Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1K874	Bypass Ascending Colon to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K87K	Bypass Ascending Colon to Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K87L	Bypass Ascending Colon to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K87M	Bypass Ascending Colon to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K87N	Bypass Ascending Colon to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K87P	Bypass Ascending Colon to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1K8J4	Bypass Ascending Colon to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8JK	Bypass Ascending Colon to Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8JL	Bypass Ascending Colon to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8JM	Bypass Ascending Colon to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8JN	Bypass Ascending Colon to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8JP	Bypass Ascending Colon to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8K4	Bypass Ascending Colon to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8KK	Bypass Ascending Colon to Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8KL	Bypass Ascending Colon to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8KM	Bypass Ascending Colon to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8KN	Bypass Ascending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8KP	Bypass Ascending Colon to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8Z4	Bypass Ascending Colon to Cutaneous, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8ZK	Bypass Ascending Colon to Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8ZL	Bypass Ascending Colon to Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8ZM	Bypass Ascending Colon to Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8ZN	Bypass Ascending Colon to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1K8ZP	Bypass Ascending Colon to Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L074	Bypass Transverse Colon to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L07L	Bypass Transverse Colon to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L07M	Bypass Transverse Colon to Descending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L07N	Bypass Transverse Colon to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L07P	Bypass Transverse Colon to Rectum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1L0J4	Bypass Transverse Colon to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L0JL	Bypass Transverse Colon to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L0JM	Bypass Transverse Colon to Descending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L0JN	Bypass Transverse Colon to Sigmoid Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L0JP	Bypass Transverse Colon to Rectum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L0K4	Bypass Transverse Colon to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L0KL	Bypass Transverse Colon to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L0KM	Bypass Transverse Colon to Descending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L0KN	Bypass Transverse Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L0KP	Bypass Transverse Colon to Rectum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1L0Z4	Bypass Transverse Colon to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D1L0ZL	Bypass Transverse Colon to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D1L0ZM	Bypass Transverse Colon to Descending Colon, Open Approach	Procedure	ICD-10-PCS
0D1L0ZN	Bypass Transverse Colon to Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D1L0ZP	Bypass Transverse Colon to Rectum, Open Approach	Procedure	ICD-10-PCS
0D1L3J4	Bypass Transverse Colon to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0D1L474	Bypass Transverse Colon to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L47L	Bypass Transverse Colon to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L47M	Bypass Transverse Colon to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L47N	Bypass Transverse Colon to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L47P	Bypass Transverse Colon to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4J4	Bypass Transverse Colon to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4JL	Bypass Transverse Colon to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4JM	Bypass Transverse Colon to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4JN	Bypass Transverse Colon to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1L4JP	Bypass Transverse Colon to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4K4	Bypass Transverse Colon to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4KL	Bypass Transverse Colon to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4KM	Bypass Transverse Colon to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4KN	Bypass Transverse Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4KP	Bypass Transverse Colon to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4Z4	Bypass Transverse Colon to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4ZL	Bypass Transverse Colon to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4ZM	Bypass Transverse Colon to Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4ZN	Bypass Transverse Colon to Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L4ZP	Bypass Transverse Colon to Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1L874	Bypass Transverse Colon to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L87L	Bypass Transverse Colon to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L87M	Bypass Transverse Colon to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L87N	Bypass Transverse Colon to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L87P	Bypass Transverse Colon to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8J4	Bypass Transverse Colon to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8JL	Bypass Transverse Colon to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8JM	Bypass Transverse Colon to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8JN	Bypass Transverse Colon to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8JP	Bypass Transverse Colon to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8K4	Bypass Transverse Colon to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8KL	Bypass Transverse Colon to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8KM	Bypass Transverse Colon to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1L8KN	Bypass Transverse Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8KP	Bypass Transverse Colon to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8Z4	Bypass Transverse Colon to Cutaneous, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8ZL	Bypass Transverse Colon to Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8ZM	Bypass Transverse Colon to Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8ZN	Bypass Transverse Colon to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1L8ZP	Bypass Transverse Colon to Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M074	Bypass Descending Colon to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M07M	Bypass Descending Colon to Descending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M07N	Bypass Descending Colon to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M07P	Bypass Descending Colon to Rectum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M0J4	Bypass Descending Colon to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M0JM	Bypass Descending Colon to Descending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M0JN	Bypass Descending Colon to Sigmoid Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M0JP	Bypass Descending Colon to Rectum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M0K4	Bypass Descending Colon to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M0KM	Bypass Descending Colon to Descending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M0KN	Bypass Descending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M0KP	Bypass Descending Colon to Rectum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1M0Z4	Bypass Descending Colon to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D1M0ZM	Bypass Descending Colon to Descending Colon, Open Approach	Procedure	ICD-10-PCS
0D1M0ZN	Bypass Descending Colon to Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D1M0ZP	Bypass Descending Colon to Rectum, Open Approach	Procedure	ICD-10-PCS
0D1M3J4	Bypass Descending Colon to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0D1M474	Bypass Descending Colon to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1M47M	Bypass Descending Colon to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M47N	Bypass Descending Colon to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M47P	Bypass Descending Colon to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4J4	Bypass Descending Colon to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4JM	Bypass Descending Colon to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4JN	Bypass Descending Colon to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4JP	Bypass Descending Colon to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4K4	Bypass Descending Colon to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4KM	Bypass Descending Colon to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4KN	Bypass Descending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4KP	Bypass Descending Colon to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4Z4	Bypass Descending Colon to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4ZM	Bypass Descending Colon to Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4ZN	Bypass Descending Colon to Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M4ZP	Bypass Descending Colon to Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1M874	Bypass Descending Colon to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M87M	Bypass Descending Colon to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M87N	Bypass Descending Colon to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M87P	Bypass Descending Colon to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8J4	Bypass Descending Colon to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8JM	Bypass Descending Colon to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8JN	Bypass Descending Colon to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8JP	Bypass Descending Colon to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8K4	Bypass Descending Colon to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1M8KM	Bypass Descending Colon to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8KN	Bypass Descending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8KP	Bypass Descending Colon to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8Z4	Bypass Descending Colon to Cutaneous, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8ZM	Bypass Descending Colon to Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8ZN	Bypass Descending Colon to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1M8ZP	Bypass Descending Colon to Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N074	Bypass Sigmoid Colon to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1N07N	Bypass Sigmoid Colon to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1N07P	Bypass Sigmoid Colon to Rectum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1N0J4	Bypass Sigmoid Colon to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1N0JN	Bypass Sigmoid Colon to Sigmoid Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1N0JP	Bypass Sigmoid Colon to Rectum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1N0K4	Bypass Sigmoid Colon to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1N0KN	Bypass Sigmoid Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1N0KP	Bypass Sigmoid Colon to Rectum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1N0Z4	Bypass Sigmoid Colon to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0D1N0ZN	Bypass Sigmoid Colon to Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D1N0ZP	Bypass Sigmoid Colon to Rectum, Open Approach	Procedure	ICD-10-PCS
0D1N3J4	Bypass Sigmoid Colon to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0D1N474	Bypass Sigmoid Colon to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N47N	Bypass Sigmoid Colon to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N47P	Bypass Sigmoid Colon to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N4J4	Bypass Sigmoid Colon to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N4JN	Bypass Sigmoid Colon to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D1N4JP	Bypass Sigmoid Colon to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N4K4	Bypass Sigmoid Colon to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N4KN	Bypass Sigmoid Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N4KP	Bypass Sigmoid Colon to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N4Z4	Bypass Sigmoid Colon to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N4ZN	Bypass Sigmoid Colon to Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N4ZP	Bypass Sigmoid Colon to Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1N874	Bypass Sigmoid Colon to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N87N	Bypass Sigmoid Colon to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N87P	Bypass Sigmoid Colon to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N8J4	Bypass Sigmoid Colon to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N8JN	Bypass Sigmoid Colon to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N8JP	Bypass Sigmoid Colon to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N8K4	Bypass Sigmoid Colon to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N8KN	Bypass Sigmoid Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N8KP	Bypass Sigmoid Colon to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N8Z4	Bypass Sigmoid Colon to Cutaneous, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N8ZN	Bypass Sigmoid Colon to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1N8ZP	Bypass Sigmoid Colon to Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D510Z3	Destruction of Upper Esophagus using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D510ZZ	Destruction of Upper Esophagus, Open Approach	Procedure	ICD-10-PCS
0D513Z3	Destruction of Upper Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D513ZZ	Destruction of Upper Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0D514Z3	Destruction of Upper Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D514ZZ	Destruction of Upper Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D517ZZ	Destruction of Upper Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D520Z3	Destruction of Middle Esophagus using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D520ZZ	Destruction of Middle Esophagus, Open Approach	Procedure	ICD-10-PCS
0D523Z3	Destruction of Middle Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D523ZZ	Destruction of Middle Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0D524Z3	Destruction of Middle Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D524ZZ	Destruction of Middle Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D527ZZ	Destruction of Middle Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D530Z3	Destruction of Lower Esophagus using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D530ZZ	Destruction of Lower Esophagus, Open Approach	Procedure	ICD-10-PCS
0D533Z3	Destruction of Lower Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D533ZZ	Destruction of Lower Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0D534Z3	Destruction of Lower Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D534ZZ	Destruction of Lower Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D537ZZ	Destruction of Lower Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D540Z3	Destruction of Esophagogastric Junction using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D540ZZ	Destruction of Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0D543Z3	Destruction of Esophagogastric Junction using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D543ZZ	Destruction of Esophagogastric Junction, Percutaneous Approach	Procedure	ICD-10-PCS
0D544Z3	Destruction of Esophagogastric Junction using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D544ZZ	Destruction of Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D547ZZ	Destruction of Esophagogastric Junction, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D550Z3	Destruction of Esophagus using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D550ZZ	Destruction of Esophagus, Open Approach	Procedure	ICD-10-PCS
0D553Z3	Destruction of Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D553ZZ	Destruction of Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0D554Z3	Destruction of Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D554ZZ	Destruction of Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D557ZZ	Destruction of Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D560Z3	Destruction of Stomach using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D560ZZ	Destruction of Stomach, Open Approach	Procedure	ICD-10-PCS
0D563Z3	Destruction of Stomach using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D563ZZ	Destruction of Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0D564Z3	Destruction of Stomach using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D564ZZ	Destruction of Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D567ZZ	Destruction of Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D570Z3	Destruction of Stomach, Pylorus using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D570ZZ	Destruction of Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0D573Z3	Destruction of Stomach, Pylorus using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D573ZZ	Destruction of Stomach, Pylorus, Percutaneous Approach	Procedure	ICD-10-PCS
0D574Z3	Destruction of Stomach, Pylorus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D574ZZ	Destruction of Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D577ZZ	Destruction of Stomach, Pylorus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D580Z3	Destruction of Small Intestine using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D580ZZ	Destruction of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0D583Z3	Destruction of Small Intestine using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D583ZZ	Destruction of Small Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0D584Z3	Destruction of Small Intestine using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D584ZZ	Destruction of Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D587ZZ	Destruction of Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D590Z3	Destruction of Duodenum using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D590ZZ	Destruction of Duodenum, Open Approach	Procedure	ICD-10-PCS
0D593Z3	Destruction of Duodenum using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D593ZZ	Destruction of Duodenum, Percutaneous Approach	Procedure	ICD-10-PCS
0D594Z3	Destruction of Duodenum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D594ZZ	Destruction of Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D597ZZ	Destruction of Duodenum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5A0Z3	Destruction of Jejunum using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5A0ZZ	Destruction of Jejunum, Open Approach	Procedure	ICD-10-PCS
0D5A3Z3	Destruction of Jejunum using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5A3ZZ	Destruction of Jejunum, Percutaneous Approach	Procedure	ICD-10-PCS
0D5A4Z3	Destruction of Jejunum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5A4ZZ	Destruction of Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5A7ZZ	Destruction of Jejunum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D5B0Z3	Destruction of Ileum using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5B0ZZ	Destruction of Ileum, Open Approach	Procedure	ICD-10-PCS
0D5B3Z3	Destruction of Ileum using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5B3ZZ	Destruction of Ileum, Percutaneous Approach	Procedure	ICD-10-PCS
0D5B4Z3	Destruction of Ileum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5B4ZZ	Destruction of Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5B7ZZ	Destruction of Ileum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5C0Z3	Destruction of Ileocecal Valve using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5C0ZZ	Destruction of Ileocecal Valve, Open Approach	Procedure	ICD-10-PCS
0D5C3Z3	Destruction of Ileocecal Valve using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5C3ZZ	Destruction of Ileocecal Valve, Percutaneous Approach	Procedure	ICD-10-PCS
0D5C4Z3	Destruction of Ileocecal Valve using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5C4ZZ	Destruction of Ileocecal Valve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5C7ZZ	Destruction of Ileocecal Valve, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5E0Z3	Destruction of Large Intestine using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5E0ZZ	Destruction of Large Intestine, Open Approach	Procedure	ICD-10-PCS
0D5E3Z3	Destruction of Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5E3ZZ	Destruction of Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0D5E4Z3	Destruction of Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5E4ZZ	Destruction of Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5E7ZZ	Destruction of Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5F0Z3	Destruction of Right Large Intestine using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5F0ZZ	Destruction of Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0D5F3Z3	Destruction of Right Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5F3ZZ	Destruction of Right Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0D5F4Z3	Destruction of Right Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5F4ZZ	Destruction of Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5F7ZZ	Destruction of Right Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5G0Z3	Destruction of Left Large Intestine using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5G0ZZ	Destruction of Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0D5G3Z3	Destruction of Left Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5G3ZZ	Destruction of Left Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D5G4Z3	Destruction of Left Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5G4ZZ	Destruction of Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5G7ZZ	Destruction of Left Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5H0Z3	Destruction of Cecum using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5H0ZZ	Destruction of Cecum, Open Approach	Procedure	ICD-10-PCS
0D5H3Z3	Destruction of Cecum using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5H3ZZ	Destruction of Cecum, Percutaneous Approach	Procedure	ICD-10-PCS
0D5H4Z3	Destruction of Cecum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5H4ZZ	Destruction of Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5H7ZZ	Destruction of Cecum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5J0Z3	Destruction of Appendix using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5J0ZZ	Destruction of Appendix, Open Approach	Procedure	ICD-10-PCS
0D5J3Z3	Destruction of Appendix using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5J3ZZ	Destruction of Appendix, Percutaneous Approach	Procedure	ICD-10-PCS
0D5J4Z3	Destruction of Appendix using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5J4ZZ	Destruction of Appendix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5J7ZZ	Destruction of Appendix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5J8ZZ	Destruction of Appendix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D5K0Z3	Destruction of Ascending Colon using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5K0ZZ	Destruction of Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0D5K3Z3	Destruction of Ascending Colon using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5K3ZZ	Destruction of Ascending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0D5K4Z3	Destruction of Ascending Colon using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5K4ZZ	Destruction of Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5K7ZZ	Destruction of Ascending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5L0Z3	Destruction of Transverse Colon using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5L0ZZ	Destruction of Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D5L3Z3	Destruction of Transverse Colon using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5L3ZZ	Destruction of Transverse Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0D5L4Z3	Destruction of Transverse Colon using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5L4ZZ	Destruction of Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5L7ZZ	Destruction of Transverse Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D5M0Z3	Destruction of Descending Colon using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5M0ZZ	Destruction of Descending Colon, Open Approach	Procedure	ICD-10-PCS
0D5M3Z3	Destruction of Descending Colon using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5M3ZZ	Destruction of Descending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0D5M4Z3	Destruction of Descending Colon using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5M4ZZ	Destruction of Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5M7ZZ	Destruction of Descending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5N0Z3	Destruction of Sigmoid Colon using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5N0ZZ	Destruction of Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D5N3Z3	Destruction of Sigmoid Colon using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5N3ZZ	Destruction of Sigmoid Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0D5N4Z3	Destruction of Sigmoid Colon using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5N4ZZ	Destruction of Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5N7ZZ	Destruction of Sigmoid Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D5P0Z3	Destruction of Rectum using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5P0ZZ	Destruction of Rectum, Open Approach	Procedure	ICD-10-PCS
0D5P3Z3	Destruction of Rectum using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5P4Z3	Destruction of Rectum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5P4ZZ	Destruction of Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5Q0Z3	Destruction of Anus using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0D5Q0ZZ	Destruction of Anus, Open Approach	Procedure	ICD-10-PCS
0D5Q3Z3	Destruction of Anus using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0D5Q4Z3	Destruction of Anus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5Q4ZZ	Destruction of Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5R0ZZ	Destruction of Anal Sphincter, Open Approach	Procedure	ICD-10-PCS
0D5R4ZZ	Destruction of Anal Sphincter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5S0ZZ	Destruction of Greater Omentum, Open Approach	Procedure	ICD-10-PCS
0D5S3ZZ	Destruction of Greater Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0D5S4ZZ	Destruction of Greater Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5T0ZZ	Destruction of Lesser Omentum, Open Approach	Procedure	ICD-10-PCS
0D5T3ZZ	Destruction of Lesser Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0D5T4ZZ	Destruction of Lesser Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5U0ZZ	Destruction of Omentum, Open Approach	Procedure	ICD-10-PCS
0D5U3ZZ	Destruction of Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0D5U4ZZ	Destruction of Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D5V0ZZ	Destruction of Mesentery, Open Approach	Procedure	ICD-10-PCS
0D5V3ZZ	Destruction of Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0D5V4ZZ	Destruction of Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D5W0ZZ	Destruction of Peritoneum, Open Approach	Procedure	ICD-10-PCS
0D5W3ZZ	Destruction of Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0D5W4ZZ	Destruction of Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D710DZ	Dilation of Upper Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D710ZZ	Dilation of Upper Esophagus, Open Approach	Procedure	ICD-10-PCS
0D713DZ	Dilation of Upper Esophagus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D713ZZ	Dilation of Upper Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0D714DZ	Dilation of Upper Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D714ZZ	Dilation of Upper Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D720DZ	Dilation of Middle Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D720ZZ	Dilation of Middle Esophagus, Open Approach	Procedure	ICD-10-PCS
0D723DZ	Dilation of Middle Esophagus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D723ZZ	Dilation of Middle Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0D724DZ	Dilation of Middle Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D724ZZ	Dilation of Middle Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D730DZ	Dilation of Lower Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D730ZZ	Dilation of Lower Esophagus, Open Approach	Procedure	ICD-10-PCS
0D733DZ	Dilation of Lower Esophagus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D733ZZ	Dilation of Lower Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0D734DZ	Dilation of Lower Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D734ZZ	Dilation of Lower Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D740DZ	Dilation of Esophagogastric Junction with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D740ZZ	Dilation of Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0D743DZ	Dilation of Esophagogastric Junction with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D743ZZ	Dilation of Esophagogastric Junction, Percutaneous Approach	Procedure	ICD-10-PCS
0D744DZ	Dilation of Esophagogastric Junction with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D744ZZ	Dilation of Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D750DZ	Dilation of Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D750ZZ	Dilation of Esophagus, Open Approach	Procedure	ICD-10-PCS
0D753DZ	Dilation of Esophagus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D753ZZ	Dilation of Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0D754DZ	Dilation of Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D754ZZ	Dilation of Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D760DZ	Dilation of Stomach with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D760ZZ	Dilation of Stomach, Open Approach	Procedure	ICD-10-PCS
0D763DZ	Dilation of Stomach with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D763ZZ	Dilation of Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0D764DZ	Dilation of Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D764ZZ	Dilation of Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D770DZ	Dilation of Stomach, Pylorus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D770ZZ	Dilation of Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0D773DZ	Dilation of Stomach, Pylorus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D773ZZ	Dilation of Stomach, Pylorus, Percutaneous Approach	Procedure	ICD-10-PCS
0D774DZ	Dilation of Stomach, Pylorus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D774ZZ	Dilation of Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D780DZ	Dilation of Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D780ZZ	Dilation of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0D783ZZ	Dilation of Small Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0D784DZ	Dilation of Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D784ZZ	Dilation of Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D790DZ	Dilation of Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D790ZZ	Dilation of Duodenum, Open Approach	Procedure	ICD-10-PCS
0D793ZZ	Dilation of Duodenum, Percutaneous Approach	Procedure	ICD-10-PCS
0D794DZ	Dilation of Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D794ZZ	Dilation of Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7A0DZ	Dilation of Jejunum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7A0ZZ	Dilation of Jejunum, Open Approach	Procedure	ICD-10-PCS
0D7A3ZZ	Dilation of Jejunum, Percutaneous Approach	Procedure	ICD-10-PCS
0D7A4DZ	Dilation of Jejunum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7A4ZZ	Dilation of Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7B0DZ	Dilation of Ileum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7B0ZZ	Dilation of Ileum, Open Approach	Procedure	ICD-10-PCS
0D7B3ZZ	Dilation of Ileum, Percutaneous Approach	Procedure	ICD-10-PCS
0D7B4DZ	Dilation of Ileum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7B4ZZ	Dilation of Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7C0DZ	Dilation of Ileocecal Valve with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7C0ZZ	Dilation of Ileocecal Valve, Open Approach	Procedure	ICD-10-PCS
0D7C3ZZ	Dilation of Ileocecal Valve, Percutaneous Approach	Procedure	ICD-10-PCS
0D7C4DZ	Dilation of Ileocecal Valve with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7C4ZZ	Dilation of Ileocecal Valve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7E0DZ	Dilation of Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7E0ZZ	Dilation of Large Intestine, Open Approach	Procedure	ICD-10-PCS
0D7E3ZZ	Dilation of Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0D7E4DZ	Dilation of Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D7E4ZZ	Dilation of Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7F0DZ	Dilation of Right Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7F0ZZ	Dilation of Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0D7F3ZZ	Dilation of Right Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0D7F4DZ	Dilation of Right Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7F4ZZ	Dilation of Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7G0DZ	Dilation of Left Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7G0ZZ	Dilation of Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0D7G3ZZ	Dilation of Left Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0D7G4DZ	Dilation of Left Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7G4ZZ	Dilation of Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7H0DZ	Dilation of Cecum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7H0ZZ	Dilation of Cecum, Open Approach	Procedure	ICD-10-PCS
0D7H3ZZ	Dilation of Cecum, Percutaneous Approach	Procedure	ICD-10-PCS
0D7H4DZ	Dilation of Cecum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7H4ZZ	Dilation of Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7K0DZ	Dilation of Ascending Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7K0ZZ	Dilation of Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0D7K3ZZ	Dilation of Ascending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0D7K4DZ	Dilation of Ascending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7K4ZZ	Dilation of Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7L0DZ	Dilation of Transverse Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7L0ZZ	Dilation of Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D7L3ZZ	Dilation of Transverse Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0D7L4DZ	Dilation of Transverse Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7L4ZZ	Dilation of Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7M0DZ	Dilation of Descending Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7M0ZZ	Dilation of Descending Colon, Open Approach	Procedure	ICD-10-PCS
0D7M3ZZ	Dilation of Descending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0D7M4DZ	Dilation of Descending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7M4ZZ	Dilation of Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7N0DZ	Dilation of Sigmoid Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7N0ZZ	Dilation of Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D7N3ZZ	Dilation of Sigmoid Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0D7N4DZ	Dilation of Sigmoid Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7N4ZZ	Dilation of Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7P0DZ	Dilation of Rectum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7P0ZZ	Dilation of Rectum, Open Approach	Procedure	ICD-10-PCS
0D7P3DZ	Dilation of Rectum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D7P3ZZ	Dilation of Rectum, Percutaneous Approach	Procedure	ICD-10-PCS
0D7P4DZ	Dilation of Rectum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7P4ZZ	Dilation of Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7Q0DZ	Dilation of Anus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0D7Q0ZZ	Dilation of Anus, Open Approach	Procedure	ICD-10-PCS
0D7Q3DZ	Dilation of Anus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0D7Q3ZZ	Dilation of Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0D7Q4DZ	Dilation of Anus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D7Q4ZZ	Dilation of Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D840ZZ	Division of Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0D843ZZ	Division of Esophagogastric Junction, Percutaneous Approach	Procedure	ICD-10-PCS
0D844ZZ	Division of Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D847ZZ	Division of Esophagogastric Junction, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D848ZZ	Division of Esophagogastric Junction, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D870ZZ	Division of Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0D873ZZ	Division of Stomach, Pylorus, Percutaneous Approach	Procedure	ICD-10-PCS
0D874ZZ	Division of Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D877ZZ	Division of Stomach, Pylorus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D878ZZ	Division of Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D8R0ZZ	Division of Anal Sphincter, Open Approach	Procedure	ICD-10-PCS
0D8R3ZZ	Division of Anal Sphincter, Percutaneous Approach	Procedure	ICD-10-PCS
0D9100Z	Drainage of Upper Esophagus with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D910ZZ	Drainage of Upper Esophagus, Open Approach	Procedure	ICD-10-PCS
0D9140Z	Drainage of Upper Esophagus with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D914ZZ	Drainage of Upper Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9200Z	Drainage of Middle Esophagus with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D920ZZ	Drainage of Middle Esophagus, Open Approach	Procedure	ICD-10-PCS
0D9240Z	Drainage of Middle Esophagus with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D924ZZ	Drainage of Middle Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9300Z	Drainage of Lower Esophagus with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D930ZZ	Drainage of Lower Esophagus, Open Approach	Procedure	ICD-10-PCS
0D9340Z	Drainage of Lower Esophagus with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D934ZZ	Drainage of Lower Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9400Z	Drainage of Esophagogastric Junction with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D940ZZ	Drainage of Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0D9440Z	Drainage of Esophagogastric Junction with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D944ZZ	Drainage of Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9500Z	Drainage of Esophagus with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D950ZZ	Drainage of Esophagus, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D9540Z	Drainage of Esophagus with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D954ZZ	Drainage of Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9600Z	Drainage of Stomach with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D960ZZ	Drainage of Stomach, Open Approach	Procedure	ICD-10-PCS
0D9640Z	Drainage of Stomach with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D964ZZ	Drainage of Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9700Z	Drainage of Stomach, Pylorus with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D970ZZ	Drainage of Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0D9740Z	Drainage of Stomach, Pylorus with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D974ZZ	Drainage of Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9800Z	Drainage of Small Intestine with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D980ZZ	Drainage of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0D9840Z	Drainage of Small Intestine with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D984ZZ	Drainage of Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9900Z	Drainage of Duodenum with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D990ZZ	Drainage of Duodenum, Open Approach	Procedure	ICD-10-PCS
0D9940Z	Drainage of Duodenum with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D994ZZ	Drainage of Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9A00Z	Drainage of Jejunum with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9A0ZZ	Drainage of Jejunum, Open Approach	Procedure	ICD-10-PCS
0D9A40Z	Drainage of Jejunum with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9A4ZZ	Drainage of Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9B00Z	Drainage of Ileum with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9B0ZZ	Drainage of Ileum, Open Approach	Procedure	ICD-10-PCS
0D9B40Z	Drainage of Ileum with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9B4ZZ	Drainage of Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9C00Z	Drainage of Ileocecal Valve with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9C0ZZ	Drainage of Ileocecal Valve, Open Approach	Procedure	ICD-10-PCS
0D9C40Z	Drainage of Ileocecal Valve with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9C4ZZ	Drainage of Ileocecal Valve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9E00Z	Drainage of Large Intestine with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9E0ZZ	Drainage of Large Intestine, Open Approach	Procedure	ICD-10-PCS
0D9E40Z	Drainage of Large Intestine with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9E4ZZ	Drainage of Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9F00Z	Drainage of Right Large Intestine with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9F0ZZ	Drainage of Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0D9F40Z	Drainage of Right Large Intestine with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9F4ZZ	Drainage of Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D9G00Z	Drainage of Left Large Intestine with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9G0ZZ	Drainage of Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0D9G40Z	Drainage of Left Large Intestine with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9G4ZZ	Drainage of Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9H00Z	Drainage of Cecum with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9H0ZZ	Drainage of Cecum, Open Approach	Procedure	ICD-10-PCS
0D9H40Z	Drainage of Cecum with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9H4ZZ	Drainage of Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9J00Z	Drainage of Appendix with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9J0ZZ	Drainage of Appendix, Open Approach	Procedure	ICD-10-PCS
0D9J40Z	Drainage of Appendix with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9J4ZZ	Drainage of Appendix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9K00Z	Drainage of Ascending Colon with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9K0ZZ	Drainage of Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0D9K40Z	Drainage of Ascending Colon with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9K4ZZ	Drainage of Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9L00Z	Drainage of Transverse Colon with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9L0ZZ	Drainage of Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D9L40Z	Drainage of Transverse Colon with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9L4ZZ	Drainage of Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9M00Z	Drainage of Descending Colon with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9M0ZZ	Drainage of Descending Colon, Open Approach	Procedure	ICD-10-PCS
0D9M40Z	Drainage of Descending Colon with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9M4ZZ	Drainage of Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9N00Z	Drainage of Sigmoid Colon with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9N0ZZ	Drainage of Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0D9N40Z	Drainage of Sigmoid Colon with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9N4ZZ	Drainage of Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9P00Z	Drainage of Rectum with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9P0ZZ	Drainage of Rectum, Open Approach	Procedure	ICD-10-PCS
0D9P40Z	Drainage of Rectum with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9P4ZZ	Drainage of Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9Q00Z	Drainage of Anus with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9Q0ZZ	Drainage of Anus, Open Approach	Procedure	ICD-10-PCS
0D9Q40Z	Drainage of Anus with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9Q4ZZ	Drainage of Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9QX0Z	Drainage of Anus with Drainage Device, External Approach	Procedure	ICD-10-PCS
0D9QXZZ	Drainage of Anus, External Approach	Procedure	ICD-10-PCS
0D9R00Z	Drainage of Anal Sphincter with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9R0ZZ	Drainage of Anal Sphincter, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0D9R40Z	Drainage of Anal Sphincter with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9R4ZZ	Drainage of Anal Sphincter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9S00Z	Drainage of Greater Omentum with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9S0ZZ	Drainage of Greater Omentum, Open Approach	Procedure	ICD-10-PCS
0D9T00Z	Drainage of Lesser Omentum with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9T0ZZ	Drainage of Lesser Omentum, Open Approach	Procedure	ICD-10-PCS
0D9U00Z	Drainage of Omentum with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9U0ZZ	Drainage of Omentum, Open Approach	Procedure	ICD-10-PCS
0D9U40Z	Drainage of Omentum with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9U4ZZ	Drainage of Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9V00Z	Drainage of Mesentery with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9V0ZZ	Drainage of Mesentery, Open Approach	Procedure	ICD-10-PCS
0D9V40Z	Drainage of Mesentery with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9V4ZZ	Drainage of Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9W00Z	Drainage of Peritoneum with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0D9W0ZZ	Drainage of Peritoneum, Open Approach	Procedure	ICD-10-PCS
0D9W40Z	Drainage of Peritoneum with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D9W4ZZ	Drainage of Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DB10ZZ	Excision of Upper Esophagus, Open Approach	Procedure	ICD-10-PCS
0DB13ZZ	Excision of Upper Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DB14ZZ	Excision of Upper Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DB17ZZ	Excision of Upper Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB20ZZ	Excision of Middle Esophagus, Open Approach	Procedure	ICD-10-PCS
0DB23ZZ	Excision of Middle Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DB24ZZ	Excision of Middle Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DB27ZZ	Excision of Middle Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB30ZZ	Excision of Lower Esophagus, Open Approach	Procedure	ICD-10-PCS
0DB33ZZ	Excision of Lower Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DB34ZZ	Excision of Lower Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DB37ZZ	Excision of Lower Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB40ZZ	Excision of Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0DB43ZZ	Excision of Esophagogastric Junction, Percutaneous Approach	Procedure	ICD-10-PCS
0DB44ZZ	Excision of Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DB47ZZ	Excision of Esophagogastric Junction, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB50ZZ	Excision of Esophagus, Open Approach	Procedure	ICD-10-PCS
0DB53ZZ	Excision of Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DB54ZZ	Excision of Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DB57ZZ	Excision of Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB60Z3	Excision of Stomach, Open Approach, Vertical	Procedure	ICD-10-PCS
0DB60ZZ	Excision of Stomach, Open Approach	Procedure	ICD-10-PCS
0DB63Z3	Excision of Stomach, Percutaneous Approach, Vertical	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DB63ZZ	Excision of Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DB64Z3	Excision of Stomach, Percutaneous Endoscopic Approach, Vertical	Procedure	ICD-10-PCS
0DB64ZZ	Excision of Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DB67Z3	Excision of Stomach, Via Natural or Artificial Opening, Vertical	Procedure	ICD-10-PCS
0DB67ZZ	Excision of Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB68Z3	Excision of Stomach, Via Natural or Artificial Opening Endoscopic, Vertical	Procedure	ICD-10-PCS
0DB70ZZ	Excision of Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0DB73ZZ	Excision of Stomach, Pylorus, Percutaneous Approach	Procedure	ICD-10-PCS
0DB74ZZ	Excision of Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DB77ZZ	Excision of Stomach, Pylorus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB80ZZ	Excision of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DB83ZZ	Excision of Small Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DB84ZZ	Excision of Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DB87ZZ	Excision of Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB88ZZ	Excision of Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DB90ZZ	Excision of Duodenum, Open Approach	Procedure	ICD-10-PCS
0DB93ZZ	Excision of Duodenum, Percutaneous Approach	Procedure	ICD-10-PCS
0DB94ZZ	Excision of Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DB97ZZ	Excision of Duodenum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBA0ZZ	Excision of Jejunum, Open Approach	Procedure	ICD-10-PCS
0DBA3ZZ	Excision of Jejunum, Percutaneous Approach	Procedure	ICD-10-PCS
0DBA4ZZ	Excision of Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBA7ZZ	Excision of Jejunum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBA8ZZ	Excision of Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DBB0ZZ	Excision of Ileum, Open Approach	Procedure	ICD-10-PCS
0DBB3ZZ	Excision of Ileum, Percutaneous Approach	Procedure	ICD-10-PCS
0DBB4ZZ	Excision of Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBB7ZZ	Excision of Ileum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBB8ZZ	Excision of Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DBC0ZZ	Excision of Ileocecal Valve, Open Approach	Procedure	ICD-10-PCS
0DBC3ZZ	Excision of Ileocecal Valve, Percutaneous Approach	Procedure	ICD-10-PCS
0DBC4ZZ	Excision of Ileocecal Valve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBC7ZZ	Excision of Ileocecal Valve, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBC8ZZ	Excision of Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DBE0ZZ	Excision of Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DBE3ZZ	Excision of Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DBE4ZZ	Excision of Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBE7ZZ	Excision of Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBF0ZZ	Excision of Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DBF3ZZ	Excision of Right Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DBF4ZG	Excision of right large intestine, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DBF4ZZ	Excision of Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBF7ZZ	Excision of Right Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBG0ZZ	Excision of Left Large Intestine, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DBG3ZZ	Excision of Left Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DBG4ZG	Excision of left large intestine, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DBG4ZZ	Excision of Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBG7ZZ	Excision of Left Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBGFZZ	Excision of Left Large Intestine, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0DBH0ZZ	Excision of Cecum, Open Approach	Procedure	ICD-10-PCS
0DBH3ZZ	Excision of Cecum, Percutaneous Approach	Procedure	ICD-10-PCS
0DBH4ZZ	Excision of Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBH7ZZ	Excision of Cecum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBJ0ZZ	Excision of Appendix, Open Approach	Procedure	ICD-10-PCS
0DBJ3ZZ	Excision of Appendix, Percutaneous Approach	Procedure	ICD-10-PCS
0DBJ4ZG	Excision of appendix, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DBJ4ZZ	Excision of Appendix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBJ7ZZ	Excision of Appendix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBJ8ZZ	Excision of Appendix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DBK0ZZ	Excision of Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0DBK3ZZ	Excision of Ascending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DBK4ZZ	Excision of Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBK7ZZ	Excision of Ascending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBL0ZZ	Excision of Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0DBL3ZZ	Excision of Transverse Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DBL4ZG	Excision of transverse colon, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DBL4ZZ	Excision of Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBL7ZZ	Excision of Transverse Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBLFZZ	Excision of Transverse Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0DBM0ZZ	Excision of Descending Colon, Open Approach	Procedure	ICD-10-PCS
0DBM3ZZ	Excision of Descending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DBM4ZG	Excision of descending colon, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DBM4ZZ	Excision of Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBM7ZZ	Excision of Descending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBMFZZ	Excision of Descending Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0DBN0ZZ	Excision of Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0DBN3ZZ	Excision of Sigmoid Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DBN4ZG	Excision of sigmoid colon, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DBN4ZZ	Excision of Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBN7ZZ	Excision of Sigmoid Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBNFZZ	Excision of Sigmoid Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0DBP0ZZ	Excision of Rectum, Open Approach	Procedure	ICD-10-PCS
0DBP3ZZ	Excision of Rectum, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DBP4ZZ	Excision of Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBP7ZZ	Excision of Rectum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBQ0ZZ	Excision of Anus, Open Approach	Procedure	ICD-10-PCS
0DBQ3ZZ	Excision of Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DBQ4ZZ	Excision of Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBQ7ZZ	Excision of Anus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DBQXZZ	Excision of Anus, External Approach	Procedure	ICD-10-PCS
0DBR0ZZ	Excision of Anal Sphincter, Open Approach	Procedure	ICD-10-PCS
0DBR3ZZ	Excision of Anal Sphincter, Percutaneous Approach	Procedure	ICD-10-PCS
0DBR4ZZ	Excision of Anal Sphincter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBS0ZZ	Excision of Greater Omentum, Open Approach	Procedure	ICD-10-PCS
0DBS3ZZ	Excision of Greater Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DBS4ZZ	Excision of Greater Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBT0ZZ	Excision of Lesser Omentum, Open Approach	Procedure	ICD-10-PCS
0DBT3ZZ	Excision of Lesser Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DBT4ZZ	Excision of Lesser Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBU0ZZ	Excision of Omentum, Open Approach	Procedure	ICD-10-PCS
0DBU3ZZ	Excision of Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DBU4ZZ	Excision of Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBV0ZZ	Excision of Mesentery, Open Approach	Procedure	ICD-10-PCS
0DBV3ZZ	Excision of Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DBV4ZZ	Excision of Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DBW0ZZ	Excision of Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DBW3ZZ	Excision of Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DBW4ZZ	Excision of Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DC10ZZ	Extirpation of Matter from Upper Esophagus, Open Approach	Procedure	ICD-10-PCS
0DC13ZZ	Extirpation of Matter from Upper Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DC14ZZ	Extirpation of Matter from Upper Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DC20ZZ	Extirpation of Matter from Middle Esophagus, Open Approach	Procedure	ICD-10-PCS
0DC23ZZ	Extirpation of Matter from Middle Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DC24ZZ	Extirpation of Matter from Middle Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DC30ZZ	Extirpation of Matter from Lower Esophagus, Open Approach	Procedure	ICD-10-PCS
0DC33ZZ	Extirpation of Matter from Lower Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DC34ZZ	Extirpation of Matter from Lower Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DC40ZZ	Extirpation of Matter from Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0DC43ZZ	Extirpation of Matter from Esophagogastric Junction, Percutaneous Approach	Procedure	ICD-10-PCS
0DC44ZZ	Extirpation of Matter from Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DC50ZZ	Extirpation of Matter from Esophagus, Open Approach	Procedure	ICD-10-PCS
0DC53ZZ	Extirpation of Matter from Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DC54ZZ	Extirpation of Matter from Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DC60ZZ	Extirpation of Matter from Stomach, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DC63ZZ	Extirpation of Matter from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DC64ZZ	Extirpation of Matter from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DC70ZZ	Extirpation of Matter from Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0DC73ZZ	Extirpation of Matter from Stomach, Pylorus, Percutaneous Approach	Procedure	ICD-10-PCS
0DC74ZZ	Extirpation of Matter from Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DC80ZZ	Extirpation of Matter from Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DC83ZZ	Extirpation of Matter from Small Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DC84ZZ	Extirpation of Matter from Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DC90ZZ	Extirpation of Matter from Duodenum, Open Approach	Procedure	ICD-10-PCS
0DC93ZZ	Extirpation of Matter from Duodenum, Percutaneous Approach	Procedure	ICD-10-PCS
0DC94ZZ	Extirpation of Matter from Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCA0ZZ	Extirpation of Matter from Jejunum, Open Approach	Procedure	ICD-10-PCS
0DCA3ZZ	Extirpation of Matter from Jejunum, Percutaneous Approach	Procedure	ICD-10-PCS
0DCA4ZZ	Extirpation of Matter from Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCB0ZZ	Extirpation of Matter from Ileum, Open Approach	Procedure	ICD-10-PCS
0DCB3ZZ	Extirpation of Matter from Ileum, Percutaneous Approach	Procedure	ICD-10-PCS
0DCB4ZZ	Extirpation of Matter from Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCC0ZZ	Extirpation of Matter from Ileocecal Valve, Open Approach	Procedure	ICD-10-PCS
0DCC3ZZ	Extirpation of Matter from Ileocecal Valve, Percutaneous Approach	Procedure	ICD-10-PCS
0DCC4ZZ	Extirpation of Matter from Ileocecal Valve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCE0ZZ	Extirpation of Matter from Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DCE3ZZ	Extirpation of Matter from Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DCE4ZZ	Extirpation of Matter from Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCF0ZZ	Extirpation of Matter from Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DCF3ZZ	Extirpation of Matter from Right Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DCF4ZZ	Extirpation of Matter from Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCG0ZZ	Extirpation of Matter from Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DCG3ZZ	Extirpation of Matter from Left Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DCG4ZZ	Extirpation of Matter from Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCH0ZZ	Extirpation of Matter from Cecum, Open Approach	Procedure	ICD-10-PCS
0DCH3ZZ	Extirpation of Matter from Cecum, Percutaneous Approach	Procedure	ICD-10-PCS
0DCH4ZZ	Extirpation of Matter from Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCJ0ZZ	Extirpation of Matter from Appendix, Open Approach	Procedure	ICD-10-PCS
0DCJ4ZZ	Extirpation of Matter from Appendix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCK0ZZ	Extirpation of Matter from Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0DCK3ZZ	Extirpation of Matter from Ascending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DCK4ZZ	Extirpation of Matter from Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCL0ZZ	Extirpation of Matter from Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0DCL3ZZ	Extirpation of Matter from Transverse Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DCL4ZZ	Extirpation of Matter from Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DCM0ZZ	Extirpation of Matter from Descending Colon, Open Approach	Procedure	ICD-10-PCS
0DCM3ZZ	Extirpation of Matter from Descending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DCM4ZZ	Extirpation of Matter from Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCN0ZZ	Extirpation of Matter from Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0DCN3ZZ	Extirpation of Matter from Sigmoid Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DCN4ZZ	Extirpation of Matter from Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCP0ZZ	Extirpation of Matter from Rectum, Open Approach	Procedure	ICD-10-PCS
0DCP3ZZ	Extirpation of Matter from Rectum, Percutaneous Approach	Procedure	ICD-10-PCS
0DCP4ZZ	Extirpation of Matter from Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCQ0ZZ	Extirpation of Matter from Anus, Open Approach	Procedure	ICD-10-PCS
0DCQ3ZZ	Extirpation of Matter from Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DCQ4ZZ	Extirpation of Matter from Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCR0ZZ	Extirpation of Matter from Anal Sphincter, Open Approach	Procedure	ICD-10-PCS
0DCR3ZZ	Extirpation of Matter from Anal Sphincter, Percutaneous Approach	Procedure	ICD-10-PCS
0DCR4ZZ	Extirpation of Matter from Anal Sphincter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCS0ZZ	Extirpation of Matter from Greater Omentum, Open Approach	Procedure	ICD-10-PCS
0DCS3ZZ	Extirpation of Matter from Greater Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DCS4ZZ	Extirpation of Matter from Greater Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCT0ZZ	Extirpation of Matter from Lesser Omentum, Open Approach	Procedure	ICD-10-PCS
0DCT3ZZ	Extirpation of Matter from Lesser Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DCT4ZZ	Extirpation of Matter from Lesser Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCU0ZZ	Extirpation of Matter from Omentum, Open Approach	Procedure	ICD-10-PCS
0DCU3ZZ	Extirpation of Matter from Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DCU4ZZ	Extirpation of Matter from Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCV0ZZ	Extirpation of Matter from Mesentery, Open Approach	Procedure	ICD-10-PCS
0DCV3ZZ	Extirpation of Matter from Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DCV4ZZ	Extirpation of Matter from Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DCW0ZZ	Extirpation of Matter from Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DCW3ZZ	Extirpation of Matter from Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DCW4ZZ	Extirpation of Matter from Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DF50ZZ	Fragmentation in Esophagus, Open Approach	Procedure	ICD-10-PCS
0DF53ZZ	Fragmentation in Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DF54ZZ	Fragmentation in Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DF57ZZ	Fragmentation in Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DF58ZZ	Fragmentation in Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DF60ZZ	Fragmentation in Stomach, Open Approach	Procedure	ICD-10-PCS
0DF63ZZ	Fragmentation in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DF64ZZ	Fragmentation in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DF67ZZ	Fragmentation in Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DF68ZZ	Fragmentation in Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DF80ZZ	Fragmentation in Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DF83ZZ	Fragmentation in Small Intestine, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DF84ZZ	Fragmentation in Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DF87ZZ	Fragmentation in Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DF88ZZ	Fragmentation in Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DF90ZZ	Fragmentation in Duodenum, Open Approach	Procedure	ICD-10-PCS
0DF93ZZ	Fragmentation in Duodenum, Percutaneous Approach	Procedure	ICD-10-PCS
0DF94ZZ	Fragmentation in Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DF97ZZ	Fragmentation in Duodenum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DF98ZZ	Fragmentation in Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFA0ZZ	Fragmentation in Jejunum, Open Approach	Procedure	ICD-10-PCS
0DFA3ZZ	Fragmentation in Jejunum, Percutaneous Approach	Procedure	ICD-10-PCS
0DFA4ZZ	Fragmentation in Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFA7ZZ	Fragmentation in Jejunum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFA8ZZ	Fragmentation in Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFB0ZZ	Fragmentation in Ileum, Open Approach	Procedure	ICD-10-PCS
0DFB3ZZ	Fragmentation in Ileum, Percutaneous Approach	Procedure	ICD-10-PCS
0DFB4ZZ	Fragmentation in Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFB7ZZ	Fragmentation in Ileum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFB8ZZ	Fragmentation in Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFE0ZZ	Fragmentation in Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DFE3ZZ	Fragmentation in Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DFE4ZZ	Fragmentation in Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFE7ZZ	Fragmentation in Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFE8ZZ	Fragmentation in Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFF0ZZ	Fragmentation in Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DFF3ZZ	Fragmentation in Right Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DFF4ZZ	Fragmentation in Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFF7ZZ	Fragmentation in Right Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFF8ZZ	Fragmentation in Right Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFG0ZZ	Fragmentation in Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DFG3ZZ	Fragmentation in Left Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DFG4ZZ	Fragmentation in Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFG7ZZ	Fragmentation in Left Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFG8ZZ	Fragmentation in Left Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFH0ZZ	Fragmentation in Cecum, Open Approach	Procedure	ICD-10-PCS
0DFH3ZZ	Fragmentation in Cecum, Percutaneous Approach	Procedure	ICD-10-PCS
0DFH4ZZ	Fragmentation in Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFH7ZZ	Fragmentation in Cecum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFH8ZZ	Fragmentation in Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFJ0ZZ	Fragmentation in Appendix, Open Approach	Procedure	ICD-10-PCS
0DFJ3ZZ	Fragmentation in Appendix, Percutaneous Approach	Procedure	ICD-10-PCS
0DFJ4ZZ	Fragmentation in Appendix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFJ7ZZ	Fragmentation in Appendix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFJ8ZZ	Fragmentation in Appendix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DFK0ZZ	Fragmentation in Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0DFK3ZZ	Fragmentation in Ascending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DFK4ZZ	Fragmentation in Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFK7ZZ	Fragmentation in Ascending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFK8ZZ	Fragmentation in Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFL0ZZ	Fragmentation in Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0DFL3ZZ	Fragmentation in Transverse Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DFL4ZZ	Fragmentation in Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFL7ZZ	Fragmentation in Transverse Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFL8ZZ	Fragmentation in Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFM0ZZ	Fragmentation in Descending Colon, Open Approach	Procedure	ICD-10-PCS
0DFM3ZZ	Fragmentation in Descending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DFM4ZZ	Fragmentation in Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFM7ZZ	Fragmentation in Descending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFM8ZZ	Fragmentation in Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFN0ZZ	Fragmentation in Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0DFN3ZZ	Fragmentation in Sigmoid Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DFN4ZZ	Fragmentation in Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFN7ZZ	Fragmentation in Sigmoid Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFN8ZZ	Fragmentation in Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFP0ZZ	Fragmentation in Rectum, Open Approach	Procedure	ICD-10-PCS
0DFP3ZZ	Fragmentation in Rectum, Percutaneous Approach	Procedure	ICD-10-PCS
0DFP4ZZ	Fragmentation in Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFP7ZZ	Fragmentation in Rectum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFP8ZZ	Fragmentation in Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DFQ0ZZ	Fragmentation in Anus, Open Approach	Procedure	ICD-10-PCS
0DFQ3ZZ	Fragmentation in Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DFQ4ZZ	Fragmentation in Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DFQ7ZZ	Fragmentation in Anus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DFQ8ZZ	Fragmentation in Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DH00YZ	Insertion of Other Device into Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DH04YZ	Insertion of Other Device into Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH501Z	Insertion of Radioactive Element into Esophagus, Open Approach	Procedure	ICD-10-PCS
0DH503Z	Insertion of Infusion Device into Esophagus, Open Approach	Procedure	ICD-10-PCS
0DH50DZ	Insertion of Intraluminal Device into Esophagus, Open Approach	Procedure	ICD-10-PCS
0DH50UZ	Insertion of Feeding Device into Esophagus, Open Approach	Procedure	ICD-10-PCS
0DH50YZ	Insertion of Other Device into Esophagus, Open Approach	Procedure	ICD-10-PCS
0DH533Z	Insertion of Infusion Device into Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DH541Z	Insertion of Radioactive Element into Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH543Z	Insertion of Infusion Device into Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DH54DZ	Insertion of Intraluminal Device into Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH54YZ	Insertion of Other Device into Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH601Z	Insertion of Radioactive Element into Stomach, Open Approach	Procedure	ICD-10-PCS
0DH603Z	Insertion of Infusion Device into Stomach, Open Approach	Procedure	ICD-10-PCS
0DH60DZ	Insertion of Intraluminal Device into Stomach, Open Approach	Procedure	ICD-10-PCS
0DH60MZ	Insertion of Stimulator Lead into Stomach, Open Approach	Procedure	ICD-10-PCS
0DH60UZ	Insertion of Feeding Device into Stomach, Open Approach	Procedure	ICD-10-PCS
0DH60YZ	Insertion of Other Device into Stomach, Open Approach	Procedure	ICD-10-PCS
0DH633Z	Insertion of Infusion Device into Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DH63DZ	Insertion of Intraluminal Device into Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DH63MZ	Insertion of Stimulator Lead into Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DH641Z	Insertion of Radioactive Element into Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH643Z	Insertion of Infusion Device into Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH64DZ	Insertion of Intraluminal Device into Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH64MZ	Insertion of Stimulator Lead into Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH64YZ	Insertion of Other Device into Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH801Z	Insertion of Radioactive Element into Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DH803Z	Insertion of Infusion Device into Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DH80DZ	Insertion of Intraluminal Device into Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DH80UZ	Insertion of Feeding Device into Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DH833Z	Insertion of Infusion Device into Small Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DH841Z	Insertion of Radioactive Element into Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH843Z	Insertion of Infusion Device into Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH84DZ	Insertion of Intraluminal Device into Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH901Z	Insertion of Radioactive Element into Duodenum, Open Approach	Procedure	ICD-10-PCS
0DH903Z	Insertion of Infusion Device into Duodenum, Open Approach	Procedure	ICD-10-PCS
0DH90DZ	Insertion of Intraluminal Device into Duodenum, Open Approach	Procedure	ICD-10-PCS
0DH90UZ	Insertion of Feeding Device into Duodenum, Open Approach	Procedure	ICD-10-PCS
0DH933Z	Insertion of Infusion Device into Duodenum, Percutaneous Approach	Procedure	ICD-10-PCS
0DH941Z	Insertion of Radioactive Element into Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH943Z	Insertion of Infusion Device into Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DH94DZ	Insertion of Intraluminal Device into Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHA01Z	Insertion of Radioactive Element into Jejunum, Open Approach	Procedure	ICD-10-PCS
0DHA03Z	Insertion of Infusion Device into Jejunum, Open Approach	Procedure	ICD-10-PCS
0DHA0DZ	Insertion of Intraluminal Device into Jejunum, Open Approach	Procedure	ICD-10-PCS
0DHA0UZ	Insertion of Feeding Device into Jejunum, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DHA33Z	Insertion of Infusion Device into Jejunum, Percutaneous Approach	Procedure	ICD-10-PCS
0DHA41Z	Insertion of Radioactive Element into Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHA43Z	Insertion of Infusion Device into Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHA4DZ	Insertion of Intraluminal Device into Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHB01Z	Insertion of Radioactive Element into Ileum, Open Approach	Procedure	ICD-10-PCS
0DHB03Z	Insertion of Infusion Device into Ileum, Open Approach	Procedure	ICD-10-PCS
0DHB0DZ	Insertion of Intraluminal Device into Ileum, Open Approach	Procedure	ICD-10-PCS
0DHB0UZ	Insertion of Feeding Device into Ileum, Open Approach	Procedure	ICD-10-PCS
0DHB33Z	Insertion of Infusion Device into Ileum, Percutaneous Approach	Procedure	ICD-10-PCS
0DHB41Z	Insertion of Radioactive Element into Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHB43Z	Insertion of Infusion Device into Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHB4DZ	Insertion of Intraluminal Device into Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHD0YZ	Insertion of Other Device into Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DHD4YZ	Insertion of Other Device into Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHE01Z	Insertion of Radioactive Element into Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DHE0DZ	Insertion of Intraluminal Device into Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DHE41Z	Insertion of Radioactive Element into Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHE4DZ	Insertion of Intraluminal Device into Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHP01Z	Insertion of Radioactive Element into Rectum, Open Approach	Procedure	ICD-10-PCS
0DHP0DZ	Insertion of Intraluminal Device into Rectum, Open Approach	Procedure	ICD-10-PCS
0DHP41Z	Insertion of Radioactive Element into Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHP4DZ	Insertion of Intraluminal Device into Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHQ0DZ	Insertion of Intraluminal Device into Anus, Open Approach	Procedure	ICD-10-PCS
0DHQ0LZ	Insertion of Artificial Sphincter into Anus, Open Approach	Procedure	ICD-10-PCS
0DHQ3DZ	Insertion of Intraluminal Device into Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DHQ3LZ	Insertion of Artificial Sphincter into Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DHQ4DZ	Insertion of Intraluminal Device into Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHQ4LZ	Insertion of Artificial Sphincter into Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DHR0MZ	Insertion of Stimulator Lead into Anal Sphincter, Open Approach	Procedure	ICD-10-PCS
0DHR3MZ	Insertion of Stimulator Lead into Anal Sphincter, Percutaneous Approach	Procedure	ICD-10-PCS
0DHR4MZ	Insertion of Stimulator Lead into Anal Sphincter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL10CZ	Occlusion of Upper Esophagus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL10DZ	Occlusion of Upper Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL10ZZ	Occlusion of Upper Esophagus, Open Approach	Procedure	ICD-10-PCS
0DL14CZ	Occlusion of Upper Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DL14DZ	Occlusion of Upper Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL14ZZ	Occlusion of Upper Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL20CZ	Occlusion of Middle Esophagus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL20DZ	Occlusion of Middle Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL20ZZ	Occlusion of Middle Esophagus, Open Approach	Procedure	ICD-10-PCS
0DL24CZ	Occlusion of Middle Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL24DZ	Occlusion of Middle Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL24ZZ	Occlusion of Middle Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL30CZ	Occlusion of Lower Esophagus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL30DZ	Occlusion of Lower Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL30ZZ	Occlusion of Lower Esophagus, Open Approach	Procedure	ICD-10-PCS
0DL34CZ	Occlusion of Lower Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL34DZ	Occlusion of Lower Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL34ZZ	Occlusion of Lower Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL40CZ	Occlusion of Esophagogastric Junction with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL40DZ	Occlusion of Esophagogastric Junction with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL40ZZ	Occlusion of Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0DL44CZ	Occlusion of Esophagogastric Junction with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL44DZ	Occlusion of Esophagogastric Junction with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL44ZZ	Occlusion of Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL50CZ	Occlusion of Esophagus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL50DZ	Occlusion of Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL50ZZ	Occlusion of Esophagus, Open Approach	Procedure	ICD-10-PCS
0DL54CZ	Occlusion of Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL54DZ	Occlusion of Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL54ZZ	Occlusion of Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL60CZ	Occlusion of Stomach with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL60DZ	Occlusion of Stomach with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL60ZZ	Occlusion of Stomach, Open Approach	Procedure	ICD-10-PCS
0DL63CZ	Occlusion of Stomach with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DL63DZ	Occlusion of Stomach with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DL63ZZ	Occlusion of Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DL64CZ	Occlusion of Stomach with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL64DZ	Occlusion of Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DL64ZZ	Occlusion of Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL67DZ	Occlusion of Stomach with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DL67ZZ	Occlusion of Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DL68DZ	Occlusion of Stomach with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DL68ZZ	Occlusion of Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DL70CZ	Occlusion of Stomach, Pylorus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL70DZ	Occlusion of Stomach, Pylorus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL70ZZ	Occlusion of Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0DL73CZ	Occlusion of Stomach, Pylorus with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DL73DZ	Occlusion of Stomach, Pylorus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DL73ZZ	Occlusion of Stomach, Pylorus, Percutaneous Approach	Procedure	ICD-10-PCS
0DL74CZ	Occlusion of Stomach, Pylorus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL74DZ	Occlusion of Stomach, Pylorus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL74ZZ	Occlusion of Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL77DZ	Occlusion of Stomach, Pylorus with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DL77ZZ	Occlusion of Stomach, Pylorus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DL78DZ	Occlusion of Stomach, Pylorus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DL78ZZ	Occlusion of Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DL80CZ	Occlusion of Small Intestine with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL80DZ	Occlusion of Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL80ZZ	Occlusion of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DL83CZ	Occlusion of Small Intestine with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DL83DZ	Occlusion of Small Intestine with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DL83ZZ	Occlusion of Small Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DL84CZ	Occlusion of Small Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL84DZ	Occlusion of Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL84ZZ	Occlusion of Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL87DZ	Occlusion of Small Intestine with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DL87ZZ	Occlusion of Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DL88DZ	Occlusion of Small Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DL88ZZ	Occlusion of Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DL90CZ	Occlusion of Duodenum with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL90DZ	Occlusion of Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DL90ZZ	Occlusion of Duodenum, Open Approach	Procedure	ICD-10-PCS
0DL93CZ	Occlusion of Duodenum with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DL93DZ	Occlusion of Duodenum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DL93ZZ	Occlusion of Duodenum, Percutaneous Approach	Procedure	ICD-10-PCS
0DL94CZ	Occlusion of Duodenum with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL94DZ	Occlusion of Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL94ZZ	Occlusion of Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DL97DZ	Occlusion of Duodenum with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DL97ZZ	Occlusion of Duodenum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DL98DZ	Occlusion of Duodenum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DL98ZZ	Occlusion of Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLA0CZ	Occlusion of Jejunum with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLA0DZ	Occlusion of Jejunum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLA0ZZ	Occlusion of Jejunum, Open Approach	Procedure	ICD-10-PCS
0DLA3CZ	Occlusion of Jejunum with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLA3DZ	Occlusion of Jejunum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLA3ZZ	Occlusion of Jejunum, Percutaneous Approach	Procedure	ICD-10-PCS
0DLA4CZ	Occlusion of Jejunum with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLA4DZ	Occlusion of Jejunum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLA4ZZ	Occlusion of Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLA7DZ	Occlusion of Jejunum with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLA7ZZ	Occlusion of Jejunum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLA8DZ	Occlusion of Jejunum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLA8ZZ	Occlusion of Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLB0CZ	Occlusion of Ileum with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLB0DZ	Occlusion of Ileum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLB0ZZ	Occlusion of Ileum, Open Approach	Procedure	ICD-10-PCS
0DLB3CZ	Occlusion of Ileum with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLB3DZ	Occlusion of Ileum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLB3ZZ	Occlusion of Ileum, Percutaneous Approach	Procedure	ICD-10-PCS
0DLB4CZ	Occlusion of Ileum with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLB4DZ	Occlusion of Ileum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLB4ZZ	Occlusion of Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLB7DZ	Occlusion of Ileum with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLB7ZZ	Occlusion of Ileum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLB8DZ	Occlusion of Ileum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLB8ZZ	Occlusion of Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DLC0CZ	Occlusion of Ileocecal Valve with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLC0DZ	Occlusion of Ileocecal Valve with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLC0ZZ	Occlusion of Ileocecal Valve, Open Approach	Procedure	ICD-10-PCS
0DLC3CZ	Occlusion of Ileocecal Valve with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLC3DZ	Occlusion of Ileocecal Valve with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLC3ZZ	Occlusion of Ileocecal Valve, Percutaneous Approach	Procedure	ICD-10-PCS
0DLC4CZ	Occlusion of Ileocecal Valve with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLC4DZ	Occlusion of Ileocecal Valve with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLC4ZZ	Occlusion of Ileocecal Valve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLC7DZ	Occlusion of Ileocecal Valve with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLC7ZZ	Occlusion of Ileocecal Valve, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLC8DZ	Occlusion of Ileocecal Valve with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLC8ZZ	Occlusion of Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLE0CZ	Occlusion of Large Intestine with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLE0DZ	Occlusion of Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLE0ZZ	Occlusion of Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DLE3CZ	Occlusion of Large Intestine with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLE3DZ	Occlusion of Large Intestine with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLE3ZZ	Occlusion of Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DLE4CZ	Occlusion of Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLE4DZ	Occlusion of Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLE4ZZ	Occlusion of Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLE7DZ	Occlusion of Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLE7ZZ	Occlusion of Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLE8DZ	Occlusion of Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLE8ZZ	Occlusion of Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLF0CZ	Occlusion of Right Large Intestine with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLF0DZ	Occlusion of Right Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLF0ZZ	Occlusion of Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DLF3CZ	Occlusion of Right Large Intestine with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLF3DZ	Occlusion of Right Large Intestine with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLF3ZZ	Occlusion of Right Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DLF4CZ	Occlusion of Right Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DLF4DZ	Occlusion of Right Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLF4ZZ	Occlusion of Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLF7DZ	Occlusion of Right Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLF7ZZ	Occlusion of Right Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLF8DZ	Occlusion of Right Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLF8ZZ	Occlusion of Right Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLG0CZ	Occlusion of Left Large Intestine with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLG0DZ	Occlusion of Left Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLG0ZZ	Occlusion of Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DLG3CZ	Occlusion of Left Large Intestine with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLG3DZ	Occlusion of Left Large Intestine with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLG3ZZ	Occlusion of Left Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DLG4CZ	Occlusion of Left Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLG4DZ	Occlusion of Left Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLG4ZZ	Occlusion of Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLG7DZ	Occlusion of Left Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLG7ZZ	Occlusion of Left Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLG8DZ	Occlusion of Left Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLG8ZZ	Occlusion of Left Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLH0CZ	Occlusion of Cecum with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLH0DZ	Occlusion of Cecum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLH0ZZ	Occlusion of Cecum, Open Approach	Procedure	ICD-10-PCS
0DLH3CZ	Occlusion of Cecum with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLH3DZ	Occlusion of Cecum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLH3ZZ	Occlusion of Cecum, Percutaneous Approach	Procedure	ICD-10-PCS
0DLH4CZ	Occlusion of Cecum with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLH4DZ	Occlusion of Cecum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLH4ZZ	Occlusion of Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLH7DZ	Occlusion of Cecum with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLH7ZZ	Occlusion of Cecum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLH8DZ	Occlusion of Cecum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLH8ZZ	Occlusion of Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLK0CZ	Occlusion of Ascending Colon with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DLK0DZ	Occlusion of Ascending Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLK0ZZ	Occlusion of Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0DLK3CZ	Occlusion of Ascending Colon with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLK3DZ	Occlusion of Ascending Colon with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLK3ZZ	Occlusion of Ascending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DLK4CZ	Occlusion of Ascending Colon with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLK4DZ	Occlusion of Ascending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLK4ZZ	Occlusion of Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLK7DZ	Occlusion of Ascending Colon with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLK7ZZ	Occlusion of Ascending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLK8DZ	Occlusion of Ascending Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLK8ZZ	Occlusion of Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLL0CZ	Occlusion of Transverse Colon with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLL0DZ	Occlusion of Transverse Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLL0ZZ	Occlusion of Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0DLL3CZ	Occlusion of Transverse Colon with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLL3DZ	Occlusion of Transverse Colon with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLL3ZZ	Occlusion of Transverse Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DLL4CZ	Occlusion of Transverse Colon with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLL4DZ	Occlusion of Transverse Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLL4ZZ	Occlusion of Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLL7DZ	Occlusion of Transverse Colon with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLL7ZZ	Occlusion of Transverse Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLL8DZ	Occlusion of Transverse Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLL8ZZ	Occlusion of Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLM0CZ	Occlusion of Descending Colon with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLM0DZ	Occlusion of Descending Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLM0ZZ	Occlusion of Descending Colon, Open Approach	Procedure	ICD-10-PCS
0DLM3CZ	Occlusion of Descending Colon with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLM3DZ	Occlusion of Descending Colon with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLM3ZZ	Occlusion of Descending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DLM4CZ	Occlusion of Descending Colon with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DLM4DZ	Occlusion of Descending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLM4ZZ	Occlusion of Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLM7DZ	Occlusion of Descending Colon with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLM7ZZ	Occlusion of Descending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLM8DZ	Occlusion of Descending Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLM8ZZ	Occlusion of Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLN0CZ	Occlusion of Sigmoid Colon with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLN0DZ	Occlusion of Sigmoid Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLN0ZZ	Occlusion of Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0DLN3CZ	Occlusion of Sigmoid Colon with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLN3DZ	Occlusion of Sigmoid Colon with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLN3ZZ	Occlusion of Sigmoid Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DLN4CZ	Occlusion of Sigmoid Colon with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLN4DZ	Occlusion of Sigmoid Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLN4ZZ	Occlusion of Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLN7DZ	Occlusion of Sigmoid Colon with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLN7ZZ	Occlusion of Sigmoid Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLN8DZ	Occlusion of Sigmoid Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLN8ZZ	Occlusion of Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLP0CZ	Occlusion of Rectum with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLP0DZ	Occlusion of Rectum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLP0ZZ	Occlusion of Rectum, Open Approach	Procedure	ICD-10-PCS
0DLP3CZ	Occlusion of Rectum with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLP3DZ	Occlusion of Rectum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLP3ZZ	Occlusion of Rectum, Percutaneous Approach	Procedure	ICD-10-PCS
0DLP4CZ	Occlusion of Rectum with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLP4DZ	Occlusion of Rectum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLP4ZZ	Occlusion of Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLP7DZ	Occlusion of Rectum with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLP7ZZ	Occlusion of Rectum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLP8DZ	Occlusion of Rectum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLP8ZZ	Occlusion of Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLQ0CZ	Occlusion of Anus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLQ0DZ	Occlusion of Anus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DLQ0ZZ	Occlusion of Anus, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DLQ3CZ	Occlusion of Anus with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLQ3DZ	Occlusion of Anus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DLQ3ZZ	Occlusion of Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DLQ4CZ	Occlusion of Anus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLQ4DZ	Occlusion of Anus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLQ4ZZ	Occlusion of Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DLQ7DZ	Occlusion of Anus with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLQ7ZZ	Occlusion of Anus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DLQ8DZ	Occlusion of Anus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLQ8ZZ	Occlusion of Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DLQXCZ	Occlusion of Anus with Extraluminal Device, External Approach	Procedure	ICD-10-PCS
0DLQXDZ	Occlusion of Anus with Intraluminal Device, External Approach	Procedure	ICD-10-PCS
0DLQXZZ	Occlusion of Anus, External Approach	Procedure	ICD-10-PCS
0DM50ZZ	Reattachment of Esophagus, Open Approach	Procedure	ICD-10-PCS
0DM54ZZ	Reattachment of Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DM60ZZ	Reattachment of Stomach, Open Approach	Procedure	ICD-10-PCS
0DM64ZZ	Reattachment of Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DM80ZZ	Reattachment of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DM84ZZ	Reattachment of Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DM90ZZ	Reattachment of Duodenum, Open Approach	Procedure	ICD-10-PCS
0DM94ZZ	Reattachment of Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DMA0ZZ	Reattachment of Jejunum, Open Approach	Procedure	ICD-10-PCS
0DMA4ZZ	Reattachment of Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DMB0ZZ	Reattachment of Ileum, Open Approach	Procedure	ICD-10-PCS
0DMB4ZZ	Reattachment of Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DME0ZZ	Reattachment of Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DME4ZZ	Reattachment of Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DMF0ZZ	Reattachment of Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DMF4ZZ	Reattachment of Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DMG0ZZ	Reattachment of Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DMG4ZZ	Reattachment of Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DMH0ZZ	Reattachment of Cecum, Open Approach	Procedure	ICD-10-PCS
0DMH4ZZ	Reattachment of Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DMK0ZZ	Reattachment of Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0DMK4ZZ	Reattachment of Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DML0ZZ	Reattachment of Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0DML4ZZ	Reattachment of Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DMM0ZZ	Reattachment of Descending Colon, Open Approach	Procedure	ICD-10-PCS
0DMM4ZZ	Reattachment of Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DMN0ZZ	Reattachment of Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0DMN4ZZ	Reattachment of Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DMP0ZZ	Reattachment of Rectum, Open Approach	Procedure	ICD-10-PCS
0DMP4ZZ	Reattachment of Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DN10ZZ	Release Upper Esophagus, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DN13ZZ	Release Upper Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DN14ZZ	Release Upper Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DN17ZZ	Release Upper Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DN18ZZ	Release Upper Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DN20ZZ	Release Middle Esophagus, Open Approach	Procedure	ICD-10-PCS
0DN23ZZ	Release Middle Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DN24ZZ	Release Middle Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DN27ZZ	Release Middle Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DN28ZZ	Release Middle Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DN30ZZ	Release Lower Esophagus, Open Approach	Procedure	ICD-10-PCS
0DN33ZZ	Release Lower Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DN34ZZ	Release Lower Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DN37ZZ	Release Lower Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DN38ZZ	Release Lower Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DN40ZZ	Release Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0DN43ZZ	Release Esophagogastric Junction, Percutaneous Approach	Procedure	ICD-10-PCS
0DN44ZZ	Release Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DN47ZZ	Release Esophagogastric Junction, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DN48ZZ	Release Esophagogastric Junction, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DN50ZZ	Release Esophagus, Open Approach	Procedure	ICD-10-PCS
0DN53ZZ	Release Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DN54ZZ	Release Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DN57ZZ	Release Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DN58ZZ	Release Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DN60ZZ	Release Stomach, Open Approach	Procedure	ICD-10-PCS
0DN63ZZ	Release Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DN64ZZ	Release Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DN67ZZ	Release Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DN68ZZ	Release Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DN70ZZ	Release Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0DN73ZZ	Release Stomach, Pylorus, Percutaneous Approach	Procedure	ICD-10-PCS
0DN74ZZ	Release Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DN77ZZ	Release Stomach, Pylorus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DN78ZZ	Release Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DN80ZZ	Release Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DN83ZZ	Release Small Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DN84ZZ	Release Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DN90ZZ	Release Duodenum, Open Approach	Procedure	ICD-10-PCS
0DN93ZZ	Release Duodenum, Percutaneous Approach	Procedure	ICD-10-PCS
0DN94ZZ	Release Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNA0ZZ	Release Jejunum, Open Approach	Procedure	ICD-10-PCS
0DNA3ZZ	Release Jejunum, Percutaneous Approach	Procedure	ICD-10-PCS
0DNA4ZZ	Release Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNB0ZZ	Release Ileum, Open Approach	Procedure	ICD-10-PCS
0DNB3ZZ	Release Ileum, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DNB4ZZ	Release Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNC0ZZ	Release Ileocecal Valve, Open Approach	Procedure	ICD-10-PCS
0DNC3ZZ	Release Ileocecal Valve, Percutaneous Approach	Procedure	ICD-10-PCS
0DNC4ZZ	Release Ileocecal Valve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNC7ZZ	Release Ileocecal Valve, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DNC8ZZ	Release Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DNE0ZZ	Release Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DNE3ZZ	Release Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DNE4ZZ	Release Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNF0ZZ	Release Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DNF3ZZ	Release Right Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DNF4ZZ	Release Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNG0ZZ	Release Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DNG3ZZ	Release Left Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DNG4ZZ	Release Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNH0ZZ	Release Cecum, Open Approach	Procedure	ICD-10-PCS
0DNH3ZZ	Release Cecum, Percutaneous Approach	Procedure	ICD-10-PCS
0DNH4ZZ	Release Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNJ0ZZ	Release Appendix, Open Approach	Procedure	ICD-10-PCS
0DNJ3ZZ	Release Appendix, Percutaneous Approach	Procedure	ICD-10-PCS
0DNJ4ZZ	Release Appendix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNJ7ZZ	Release Appendix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DNJ8ZZ	Release Appendix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DNK0ZZ	Release Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0DNK3ZZ	Release Ascending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DNK4ZZ	Release Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNL0ZZ	Release Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0DNL3ZZ	Release Transverse Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DNL4ZZ	Release Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNM0ZZ	Release Descending Colon, Open Approach	Procedure	ICD-10-PCS
0DNM3ZZ	Release Descending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DNM4ZZ	Release Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNN0ZZ	Release Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0DNN3ZZ	Release Sigmoid Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DNN4ZZ	Release Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNP0ZZ	Release Rectum, Open Approach	Procedure	ICD-10-PCS
0DNP3ZZ	Release Rectum, Percutaneous Approach	Procedure	ICD-10-PCS
0DNP4ZZ	Release Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNP7ZZ	Release Rectum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DNP8ZZ	Release Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DNQ0ZZ	Release Anus, Open Approach	Procedure	ICD-10-PCS
0DNQ3ZZ	Release Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DNQ4ZZ	Release Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNQ7ZZ	Release Anus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DNQ8ZZ	Release Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DNQXZZ	Release Anus, External Approach	Procedure	ICD-10-PCS
0DNR0ZZ	Release Anal Sphincter, Open Approach	Procedure	ICD-10-PCS
0DNR3ZZ	Release Anal Sphincter, Percutaneous Approach	Procedure	ICD-10-PCS
0DNR4ZZ	Release Anal Sphincter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNS0ZZ	Release Greater Omentum, Open Approach	Procedure	ICD-10-PCS
0DNS3ZZ	Release Greater Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DNS4ZZ	Release Greater Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNT0ZZ	Release Lesser Omentum, Open Approach	Procedure	ICD-10-PCS
0DNT3ZZ	Release Lesser Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DNT4ZZ	Release Lesser Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNU0ZZ	Release Omentum, Open Approach	Procedure	ICD-10-PCS
0DNU3ZZ	Release Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DNU4ZZ	Release Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNV0ZZ	Release Mesentery, Open Approach	Procedure	ICD-10-PCS
0DNV3ZZ	Release Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DNV4ZZ	Release Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DNW0ZZ	Release Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DNW3ZZ	Release Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DNW4ZZ	Release Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP000Z	Removal of Drainage Device from Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DP002Z	Removal of Monitoring Device from Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DP003Z	Removal of Infusion Device from Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DP007Z	Removal of Autologous Tissue Substitute from Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DP00CZ	Removal of Extraluminal Device from Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DP00DZ	Removal of Intraluminal Device from Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DP00JZ	Removal of Synthetic Substitute from Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DP00KZ	Removal of Nonautologous Tissue Substitute from Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DP00UZ	Removal of Feeding Device from Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DP00YZ	Removal of Other Device from Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DP030Z	Removal of Drainage Device from Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DP032Z	Removal of Monitoring Device from Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DP033Z	Removal of Infusion Device from Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DP037Z	Removal of Autologous Tissue Substitute from Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DP03CZ	Removal of Extraluminal Device from Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DP03DZ	Removal of Intraluminal Device from Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DP03JZ	Removal of Synthetic Substitute from Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DP03KZ	Removal of Nonautologous Tissue Substitute from Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DP03YZ	Removal of Other Device from Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DP040Z	Removal of Drainage Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP042Z	Removal of Monitoring Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP043Z	Removal of Infusion Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP047Z	Removal of Autologous Tissue Substitute from Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP04CZ	Removal of Extraluminal Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP04DZ	Removal of Intraluminal Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP04JZ	Removal of Synthetic Substitute from Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP04KZ	Removal of Nonautologous Tissue Substitute from Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP04UZ	Removal of Feeding Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP04YZ	Removal of Other Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP077Z	Removal of Autologous Tissue Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DP07CZ	Removal of Extraluminal Device from Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DP07JZ	Removal of Synthetic Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DP07KZ	Removal of Nonautologous Tissue Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DP087Z	Removal of Autologous Tissue Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DP08CZ	Removal of Extraluminal Device from Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DP08JZ	Removal of Synthetic Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DP08KZ	Removal of Nonautologous Tissue Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DP501Z	Removal of Radioactive Element from Esophagus, Open Approach	Procedure	ICD-10-PCS
0DP502Z	Removal of Monitoring Device from Esophagus, Open Approach	Procedure	ICD-10-PCS
0DP503Z	Removal of Infusion Device from Esophagus, Open Approach	Procedure	ICD-10-PCS
0DP50UZ	Removal of Feeding Device from Esophagus, Open Approach	Procedure	ICD-10-PCS
0DP50YZ	Removal of Other Device from Esophagus, Open Approach	Procedure	ICD-10-PCS
0DP532Z	Removal of Monitoring Device from Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DP533Z	Removal of Infusion Device from Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DP53YZ	Removal of Other Device from Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DP541Z	Removal of Radioactive Element from Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP542Z	Removal of Monitoring Device from Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP543Z	Removal of Infusion Device from Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP54UZ	Removal of Feeding Device from Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP54YZ	Removal of Other Device from Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP600Z	Removal of Drainage Device from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP602Z	Removal of Monitoring Device from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP603Z	Removal of Infusion Device from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP607Z	Removal of Autologous Tissue Substitute from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP60CZ	Removal of Extraluminal Device from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP60DZ	Removal of Intraluminal Device from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP60JZ	Removal of Synthetic Substitute from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP60KZ	Removal of Nonautologous Tissue Substitute from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP60MZ	Removal of Stimulator Lead from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP60UZ	Removal of Feeding Device from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP60YZ	Removal of Other Device from Stomach, Open Approach	Procedure	ICD-10-PCS
0DP630Z	Removal of Drainage Device from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DP632Z	Removal of Monitoring Device from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DP633Z	Removal of Infusion Device from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DP637Z	Removal of Autologous Tissue Substitute from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DP63CZ	Removal of Extraluminal Device from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DP63DZ	Removal of Intraluminal Device from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DP63JZ	Removal of Synthetic Substitute from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DP63KZ	Removal of Nonautologous Tissue Substitute from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DP63MZ	Removal of Stimulator Lead from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DP63YZ	Removal of Other Device from Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DP640Z	Removal of Drainage Device from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP642Z	Removal of Monitoring Device from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP643Z	Removal of Infusion Device from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP647Z	Removal of Autologous Tissue Substitute from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP64CZ	Removal of Extraluminal Device from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP64DZ	Removal of Intraluminal Device from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DP64JZ	Removal of Synthetic Substitute from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP64KZ	Removal of Nonautologous Tissue Substitute from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP64MZ	Removal of Stimulator Lead from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP64UZ	Removal of Feeding Device from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP64YZ	Removal of Other Device from Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DP677Z	Removal of Autologous Tissue Substitute from Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DP67CZ	Removal of Extraluminal Device from Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DP67JZ	Removal of Synthetic Substitute from Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DP67KZ	Removal of Nonautologous Tissue Substitute from Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DP687Z	Removal of Autologous Tissue Substitute from Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DP68CZ	Removal of Extraluminal Device from Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DP68JZ	Removal of Synthetic Substitute from Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DP68KZ	Removal of Nonautologous Tissue Substitute from Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DPD00Z	Removal of Drainage Device from Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DPD02Z	Removal of Monitoring Device from Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DPD03Z	Removal of Infusion Device from Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DPD07Z	Removal of Autologous Tissue Substitute from Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DPD0CZ	Removal of Extraluminal Device from Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DPD0DZ	Removal of Intraluminal Device from Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DPD0JZ	Removal of Synthetic Substitute from Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DPD0KZ	Removal of Nonautologous Tissue Substitute from Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DPD0UZ	Removal of Feeding Device from Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DPD0YZ	Removal of Other Device from Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DPD30Z	Removal of Drainage Device from Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DPD32Z	Removal of Monitoring Device from Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DPD33Z	Removal of Infusion Device from Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DPD37Z	Removal of Autologous Tissue Substitute from Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DPD3CZ	Removal of Extraluminal Device from Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DPD3DZ	Removal of Intraluminal Device from Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DPD3JZ	Removal of Synthetic Substitute from Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DPD3KZ	Removal of Nonautologous Tissue Substitute from Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DPD3YZ	Removal of Other Device from Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DPD40Z	Removal of Drainage Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPD42Z	Removal of Monitoring Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPD43Z	Removal of Infusion Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPD47Z	Removal of Autologous Tissue Substitute from Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPD4CZ	Removal of Extraluminal Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPD4DZ	Removal of Intraluminal Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPD4JZ	Removal of Synthetic Substitute from Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPD4KZ	Removal of Nonautologous Tissue Substitute from Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPD4UZ	Removal of Feeding Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPD4YZ	Removal of Other Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPD77Z	Removal of Autologous Tissue Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DPD7CZ	Removal of Extraluminal Device from Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DPD7JZ	Removal of Synthetic Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DPD7KZ	Removal of Nonautologous Tissue Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DPD87Z	Removal of Autologous Tissue Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DPD8CZ	Removal of Extraluminal Device from Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DPD8JZ	Removal of Synthetic Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DPD8KZ	Removal of Nonautologous Tissue Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DPP01Z	Removal of Radioactive Element from Rectum, Open Approach	Procedure	ICD-10-PCS
0DPP41Z	Removal of Radioactive Element from Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPQ0LZ	Removal of Artificial Sphincter from Anus, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DPQ3LZ	Removal of Artificial Sphincter from Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DPQ4LZ	Removal of Artificial Sphincter from Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPQ7LZ	Removal of Artificial Sphincter from Anus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DPQ8LZ	Removal of Artificial Sphincter from Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DPR0MZ	Removal of Stimulator Lead from Anal Sphincter, Open Approach	Procedure	ICD-10-PCS
0DPR3MZ	Removal of Stimulator Lead from Anal Sphincter, Percutaneous Approach	Procedure	ICD-10-PCS
0DPR4MZ	Removal of Stimulator Lead from Anal Sphincter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPU00Z	Removal of Drainage Device from Omentum, Open Approach	Procedure	ICD-10-PCS
0DPU01Z	Removal of Radioactive Element from Omentum, Open Approach	Procedure	ICD-10-PCS
0DPU07Z	Removal of Autologous Tissue Substitute from Omentum, Open Approach	Procedure	ICD-10-PCS
0DPU0JZ	Removal of Synthetic Substitute from Omentum, Open Approach	Procedure	ICD-10-PCS
0DPU0KZ	Removal of Nonautologous Tissue Substitute from Omentum, Open Approach	Procedure	ICD-10-PCS
0DPU30Z	Removal of Drainage Device from Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DPU37Z	Removal of Autologous Tissue Substitute from Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DPU3JZ	Removal of Synthetic Substitute from Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DPU3KZ	Removal of Nonautologous Tissue Substitute from Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DPU40Z	Removal of Drainage Device from Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPU41Z	Removal of Radioactive Element from Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPU47Z	Removal of Autologous Tissue Substitute from Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPU4JZ	Removal of Synthetic Substitute from Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPU4KZ	Removal of Nonautologous Tissue Substitute from Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPV00Z	Removal of Drainage Device from Mesentery, Open Approach	Procedure	ICD-10-PCS
0DPV01Z	Removal of Radioactive Element from Mesentery, Open Approach	Procedure	ICD-10-PCS
0DPV07Z	Removal of Autologous Tissue Substitute from Mesentery, Open Approach	Procedure	ICD-10-PCS
0DPV0JZ	Removal of Synthetic Substitute from Mesentery, Open Approach	Procedure	ICD-10-PCS
0DPV0KZ	Removal of Nonautologous Tissue Substitute from Mesentery, Open Approach	Procedure	ICD-10-PCS
0DPV30Z	Removal of Drainage Device from Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DPV37Z	Removal of Autologous Tissue Substitute from Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DPV3JZ	Removal of Synthetic Substitute from Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DPV3KZ	Removal of Nonautologous Tissue Substitute from Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DPV40Z	Removal of Drainage Device from Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPV41Z	Removal of Radioactive Element from Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DPV47Z	Removal of Autologous Tissue Substitute from Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPV4JZ	Removal of Synthetic Substitute from Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPV4KZ	Removal of Nonautologous Tissue Substitute from Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPW00Z	Removal of Drainage Device from Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DPW01Z	Removal of Radioactive Element from Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DPW07Z	Removal of Autologous Tissue Substitute from Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DPW0JZ	Removal of Synthetic Substitute from Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DPW0KZ	Removal of Nonautologous Tissue Substitute from Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DPW30Z	Removal of Drainage Device from Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DPW37Z	Removal of Autologous Tissue Substitute from Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DPW3JZ	Removal of Synthetic Substitute from Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DPW3KZ	Removal of Nonautologous Tissue Substitute from Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DPW40Z	Removal of Drainage Device from Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPW41Z	Removal of Radioactive Element from Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPW47Z	Removal of Autologous Tissue Substitute from Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPW4JZ	Removal of Synthetic Substitute from Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DPW4KZ	Removal of Nonautologous Tissue Substitute from Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQ10ZZ	Repair Upper Esophagus, Open Approach	Procedure	ICD-10-PCS
0DQ13ZZ	Repair Upper Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DQ14ZZ	Repair Upper Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQ17ZZ	Repair Upper Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQ18ZZ	Repair Upper Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQ20ZZ	Repair Middle Esophagus, Open Approach	Procedure	ICD-10-PCS
0DQ23ZZ	Repair Middle Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DQ24ZZ	Repair Middle Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQ27ZZ	Repair Middle Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQ28ZZ	Repair Middle Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQ30ZZ	Repair Lower Esophagus, Open Approach	Procedure	ICD-10-PCS
0DQ33ZZ	Repair Lower Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DQ34ZZ	Repair Lower Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQ37ZZ	Repair Lower Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQ38ZZ	Repair Lower Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQ40ZZ	Repair Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0DQ43ZZ	Repair Esophagogastric Junction, Percutaneous Approach	Procedure	ICD-10-PCS
0DQ44ZZ	Repair Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DQ47ZZ	Repair Esophagogastric Junction, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQ48ZZ	Repair Esophagogastric Junction, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQ50ZZ	Repair Esophagus, Open Approach	Procedure	ICD-10-PCS
0DQ53ZZ	Repair Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DQ54ZZ	Repair Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQ57ZZ	Repair Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQ58ZZ	Repair Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQ60ZZ	Repair Stomach, Open Approach	Procedure	ICD-10-PCS
0DQ63ZZ	Repair Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DQ64ZZ	Repair Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQ67ZZ	Repair Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQ68ZZ	Repair Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQ70ZZ	Repair Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0DQ73ZZ	Repair Stomach, Pylorus, Percutaneous Approach	Procedure	ICD-10-PCS
0DQ74ZZ	Repair Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQ77ZZ	Repair Stomach, Pylorus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQ78ZZ	Repair Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQ80ZZ	Repair Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DQ83ZZ	Repair Small Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DQ84ZZ	Repair Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQ87ZZ	Repair Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQ88ZZ	Repair Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQ90ZZ	Repair Duodenum, Open Approach	Procedure	ICD-10-PCS
0DQ93ZZ	Repair Duodenum, Percutaneous Approach	Procedure	ICD-10-PCS
0DQ94ZZ	Repair Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQ97ZZ	Repair Duodenum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQ98ZZ	Repair Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQA0ZZ	Repair Jejunum, Open Approach	Procedure	ICD-10-PCS
0DQA3ZZ	Repair Jejunum, Percutaneous Approach	Procedure	ICD-10-PCS
0DQA4ZZ	Repair Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQA7ZZ	Repair Jejunum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQA8ZZ	Repair Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQB0ZZ	Repair Ileum, Open Approach	Procedure	ICD-10-PCS
0DQB3ZZ	Repair Ileum, Percutaneous Approach	Procedure	ICD-10-PCS
0DQB4ZZ	Repair Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQB7ZZ	Repair Ileum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQB8ZZ	Repair Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQC0ZZ	Repair Ileocecal Valve, Open Approach	Procedure	ICD-10-PCS
0DQC3ZZ	Repair Ileocecal Valve, Percutaneous Approach	Procedure	ICD-10-PCS
0DQC4ZZ	Repair Ileocecal Valve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQC7ZZ	Repair Ileocecal Valve, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQC8ZZ	Repair Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQE0ZZ	Repair Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DQE3ZZ	Repair Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DQE4ZZ	Repair Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DQE7ZZ	Repair Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQE8ZZ	Repair Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQF0ZZ	Repair Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DQF3ZZ	Repair Right Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DQF4ZZ	Repair Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQF7ZZ	Repair Right Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQF8ZZ	Repair Right Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQG0ZZ	Repair Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DQG3ZZ	Repair Left Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DQG4ZZ	Repair Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQG7ZZ	Repair Left Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQG8ZZ	Repair Left Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQH0ZZ	Repair Cecum, Open Approach	Procedure	ICD-10-PCS
0DQH3ZZ	Repair Cecum, Percutaneous Approach	Procedure	ICD-10-PCS
0DQH4ZZ	Repair Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQH7ZZ	Repair Cecum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQH8ZZ	Repair Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQJ0ZZ	Repair Appendix, Open Approach	Procedure	ICD-10-PCS
0DQJ3ZZ	Repair Appendix, Percutaneous Approach	Procedure	ICD-10-PCS
0DQJ4ZZ	Repair Appendix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQJ7ZZ	Repair Appendix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQJ8ZZ	Repair Appendix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQK0ZZ	Repair Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0DQK3ZZ	Repair Ascending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DQK4ZZ	Repair Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQK7ZZ	Repair Ascending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQK8ZZ	Repair Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQL0ZZ	Repair Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0DQL3ZZ	Repair Transverse Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DQL4ZZ	Repair Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQL7ZZ	Repair Transverse Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQL8ZZ	Repair Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQM0ZZ	Repair Descending Colon, Open Approach	Procedure	ICD-10-PCS
0DQM3ZZ	Repair Descending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DQM4ZZ	Repair Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQM7ZZ	Repair Descending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQM8ZZ	Repair Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQN0ZZ	Repair Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0DQN3ZZ	Repair Sigmoid Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DQN4ZZ	Repair Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQN7ZZ	Repair Sigmoid Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQN8ZZ	Repair Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQP0ZZ	Repair Rectum, Open Approach	Procedure	ICD-10-PCS
0DQP3ZZ	Repair Rectum, Percutaneous Approach	Procedure	ICD-10-PCS
0DQP4ZZ	Repair Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DQP7ZZ	Repair Rectum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQP8ZZ	Repair Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQQ0ZZ	Repair Anus, Open Approach	Procedure	ICD-10-PCS
0DQQ3ZZ	Repair Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DQQ4ZZ	Repair Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQQ7ZZ	Repair Anus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DQQ8ZZ	Repair Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DQQXZZ	Repair Anus, External Approach	Procedure	ICD-10-PCS
0DQR0ZZ	Repair Anal Sphincter, Open Approach	Procedure	ICD-10-PCS
0DQR3ZZ	Repair Anal Sphincter, Percutaneous Approach	Procedure	ICD-10-PCS
0DQR4ZZ	Repair Anal Sphincter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQS0ZZ	Repair Greater Omentum, Open Approach	Procedure	ICD-10-PCS
0DQS3ZZ	Repair Greater Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DQS4ZZ	Repair Greater Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQT0ZZ	Repair Lesser Omentum, Open Approach	Procedure	ICD-10-PCS
0DQT3ZZ	Repair Lesser Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DQT4ZZ	Repair Lesser Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQU0ZZ	Repair Omentum, Open Approach	Procedure	ICD-10-PCS
0DQU3ZZ	Repair Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DQU4ZZ	Repair Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQV0ZZ	Repair Mesentery, Open Approach	Procedure	ICD-10-PCS
0DQV3ZZ	Repair Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DQV4ZZ	Repair Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DQW0ZZ	Repair Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DQW3ZZ	Repair Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DQW4ZZ	Repair Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DR507Z	Replacement of Esophagus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DR50JZ	Replacement of Esophagus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DR50KZ	Replacement of Esophagus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DR547Z	Replacement of Esophagus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DR54JZ	Replacement of Esophagus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DR54KZ	Replacement of Esophagus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DR577Z	Replacement of Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DR57JZ	Replacement of Esophagus with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DR57KZ	Replacement of Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DR587Z	Replacement of Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DR58JZ	Replacement of Esophagus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DR58KZ	Replacement of Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DRR07Z	Replacement of Anal Sphincter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRR0JZ	Replacement of Anal Sphincter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DRR0KZ	Replacement of Anal Sphincter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRR47Z	Replacement of Anal Sphincter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRR4JZ	Replacement of Anal Sphincter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRR4KZ	Replacement of Anal Sphincter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRS07Z	Replacement of Greater Omentum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRS0JZ	Replacement of Greater Omentum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DRS0KZ	Replacement of Greater Omentum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRS47Z	Replacement of Greater Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRS4JZ	Replacement of Greater Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRS4KZ	Replacement of Greater Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRT07Z	Replacement of Lesser Omentum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRT0JZ	Replacement of Lesser Omentum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DRT0KZ	Replacement of Lesser Omentum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRT47Z	Replacement of Lesser Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRT4JZ	Replacement of Lesser Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRT4KZ	Replacement of Lesser Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRU07Z	Replacement of Omentum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRU0JZ	Replacement of Omentum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DRU0KZ	Replacement of Omentum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRU47Z	Replacement of Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRU4JZ	Replacement of Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DRU4KZ	Replacement of Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRV07Z	Replacement of Mesentery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRV0JZ	Replacement of Mesentery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DRV0KZ	Replacement of Mesentery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRV47Z	Replacement of Mesentery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRV4JZ	Replacement of Mesentery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRV4KZ	Replacement of Mesentery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRW07Z	Replacement of Peritoneum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRW0JZ	Replacement of Peritoneum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DRW0KZ	Replacement of Peritoneum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DRW47Z	Replacement of Peritoneum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRW4JZ	Replacement of Peritoneum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DRW4KZ	Replacement of Peritoneum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DS50ZZ	Reposition Esophagus, Open Approach	Procedure	ICD-10-PCS
0DS54ZZ	Reposition Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DS57ZZ	Reposition Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DS58ZZ	Reposition Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DS60ZZ	Reposition Stomach, Open Approach	Procedure	ICD-10-PCS
0DS64ZZ	Reposition Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DS67ZZ	Reposition Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DS68ZZ	Reposition Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DS80ZZ	Reposition Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DS84ZZ	Reposition Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DS87ZZ	Reposition Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DS88ZZ	Reposition Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DS90ZZ	Reposition Duodenum, Open Approach	Procedure	ICD-10-PCS
0DS94ZZ	Reposition Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DS97ZZ	Reposition Duodenum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DS98ZZ	Reposition Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DSA0ZZ	Reposition Jejunum, Open Approach	Procedure	ICD-10-PCS
0DSA4ZZ	Reposition Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DSA7ZZ	Reposition Jejunum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DSA8ZZ	Reposition Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DSB0ZZ	Reposition Ileum, Open Approach	Procedure	ICD-10-PCS
0DSB4ZZ	Reposition Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DSB7ZZ	Reposition Ileum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DSB8ZZ	Reposition Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DSE0ZZ	Reposition Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DSE4ZZ	Reposition Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DSE7ZZ	Reposition Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DSE8ZZ	Reposition Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DSH0ZZ	Reposition Cecum, Open Approach	Procedure	ICD-10-PCS
0DSH4ZZ	Reposition Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DSH7ZZ	Reposition Cecum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DSH8ZZ	Reposition Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DSK0ZZ	Reposition Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0DSK4ZZ	Reposition Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DSK7ZZ	Reposition Ascending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DSK8ZZ	Reposition Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DSL0ZZ	Reposition Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0DSL4ZZ	Reposition Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DSL7ZZ	Reposition Transverse Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DSL8ZZ	Reposition Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DSM0ZZ	Reposition Descending Colon, Open Approach	Procedure	ICD-10-PCS
0DSM4ZZ	Reposition Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DSM7ZZ	Reposition Descending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DSM8ZZ	Reposition Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DSN0ZZ	Reposition Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0DSN4ZZ	Reposition Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DSN7ZZ	Reposition Sigmoid Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DSN8ZZ	Reposition Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DSP0ZZ	Reposition Rectum, Open Approach	Procedure	ICD-10-PCS
0DSP4ZZ	Reposition Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DSP7ZZ	Reposition Rectum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DSP8ZZ	Reposition Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DSQ0ZZ	Reposition Anus, Open Approach	Procedure	ICD-10-PCS
0DSQ4ZZ	Reposition Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DSQ7ZZ	Reposition Anus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DSQ8ZZ	Reposition Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DT10ZZ	Resection of Upper Esophagus, Open Approach	Procedure	ICD-10-PCS
0DT14ZZ	Resection of Upper Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DT17ZZ	Resection of Upper Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DT18ZZ	Resection of Upper Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DT20ZZ	Resection of Middle Esophagus, Open Approach	Procedure	ICD-10-PCS
0DT24ZZ	Resection of Middle Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DT27ZZ	Resection of Middle Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DT28ZZ	Resection of Middle Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DT30ZZ	Resection of Lower Esophagus, Open Approach	Procedure	ICD-10-PCS
0DT34ZZ	Resection of Lower Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DT37ZZ	Resection of Lower Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DT38ZZ	Resection of Lower Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DT40ZZ	Resection of Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0DT44ZZ	Resection of Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DT47ZZ	Resection of Esophagogastric Junction, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DT48ZZ	Resection of Esophagogastric Junction, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DT50ZZ	Resection of Esophagus, Open Approach	Procedure	ICD-10-PCS
0DT54ZZ	Resection of Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DT57ZZ	Resection of Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DT58ZZ	Resection of Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DT60ZZ	Resection of Stomach, Open Approach	Procedure	ICD-10-PCS
0DT64ZZ	Resection of Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DT67ZZ	Resection of Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DT68ZZ	Resection of Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DT70ZZ	Resection of Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0DT74ZZ	Resection of Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DT77ZZ	Resection of Stomach, Pylorus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DT78ZZ	Resection of Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DT80ZZ	Resection of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DT84ZZ	Resection of Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DT87ZZ	Resection of Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DT88ZZ	Resection of Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DT90ZZ	Resection of Duodenum, Open Approach	Procedure	ICD-10-PCS
0DT94ZZ	Resection of Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DT97ZZ	Resection of Duodenum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DT98ZZ	Resection of Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTA0ZZ	Resection of Jejunum, Open Approach	Procedure	ICD-10-PCS
0DTA4ZZ	Resection of Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTA7ZZ	Resection of Jejunum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTA8ZZ	Resection of Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTB0ZZ	Resection of Ileum, Open Approach	Procedure	ICD-10-PCS
0DTB4ZZ	Resection of Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTB7ZZ	Resection of Ileum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTB8ZZ	Resection of Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTC0ZZ	Resection of Ileocecal Valve, Open Approach	Procedure	ICD-10-PCS
0DTC4ZZ	Resection of Ileocecal Valve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTC7ZZ	Resection of Ileocecal Valve, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTC8ZZ	Resection of Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTE0ZZ	Resection of Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DTE4ZZ	Resection of Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTE7ZZ	Resection of Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTE8ZZ	Resection of Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTF0ZZ	Resection of Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DTF4ZG	Resection of right large intestine, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DTF4ZZ	Resection of Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DTF7ZZ	Resection of Right Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTF8ZZ	Resection of Right Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTG0ZZ	Resection of Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DTG4ZG	Resection of left large intestine, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DTG4ZZ	Resection of Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTG7ZZ	Resection of Left Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTG8ZZ	Resection of Left Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTGFZZ	Resection of Left Large Intestine, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0DTH0ZZ	Resection of Cecum, Open Approach	Procedure	ICD-10-PCS
0DTH4ZZ	Resection of Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTH7ZZ	Resection of Cecum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTH8ZZ	Resection of Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTJ0ZZ	Resection of Appendix, Open Approach	Procedure	ICD-10-PCS
0DTJ4ZG	Resection of appendix, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DTJ4ZZ	Resection of Appendix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTJ7ZZ	Resection of Appendix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTJ8ZZ	Resection of Appendix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTK0ZZ	Resection of Ascending Colon, Open Approach	Procedure	ICD-10-PCS
0DTK4ZZ	Resection of Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTK7ZZ	Resection of Ascending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTK8ZZ	Resection of Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTL0ZZ	Resection of Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0DTL4ZG	Resection of transverse colon, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DTL4ZZ	Resection of Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTL7ZZ	Resection of Transverse Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTL8ZZ	Resection of Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTLFZZ	Resection of Transverse Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0DTM0ZZ	Resection of Descending Colon, Open Approach	Procedure	ICD-10-PCS
0DTM4ZG	Resection of descending colon, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DTM4ZZ	Resection of Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTM7ZZ	Resection of Descending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTM8ZZ	Resection of Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTMFZZ	Resection of Descending Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0DTN0ZZ	Resection of Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0DTN4ZG	Resection of sigmoid colon, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0DTN4ZZ	Resection of Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTN7ZZ	Resection of Sigmoid Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTN8ZZ	Resection of Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DTNFZZ	Resection of Sigmoid Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0DTP0ZZ	Resection of Rectum, Open Approach	Procedure	ICD-10-PCS
0DTP4ZZ	Resection of Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTP7ZZ	Resection of Rectum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTP8ZZ	Resection of Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTQ0ZZ	Resection of Anus, Open Approach	Procedure	ICD-10-PCS
0DTQ4ZZ	Resection of Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTQ7ZZ	Resection of Anus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DTQ8ZZ	Resection of Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DTR0ZZ	Resection of Anal Sphincter, Open Approach	Procedure	ICD-10-PCS
0DTR4ZZ	Resection of Anal Sphincter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTS0ZZ	Resection of Greater Omentum, Open Approach	Procedure	ICD-10-PCS
0DTS4ZZ	Resection of Greater Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTT0ZZ	Resection of Lesser Omentum, Open Approach	Procedure	ICD-10-PCS
0DTT4ZZ	Resection of Lesser Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DTU0ZZ	Resection of Omentum, Open Approach	Procedure	ICD-10-PCS
0DTU4ZZ	Resection of Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU107Z	Supplement Upper Esophagus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU10JZ	Supplement Upper Esophagus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DU10KZ	Supplement Upper Esophagus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU147Z	Supplement Upper Esophagus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU14JZ	Supplement Upper Esophagus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU14KZ	Supplement Upper Esophagus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU177Z	Supplement Upper Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU17JZ	Supplement Upper Esophagus with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU17KZ	Supplement Upper Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU187Z	Supplement Upper Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU18JZ	Supplement Upper Esophagus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU18KZ	Supplement Upper Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU207Z	Supplement Middle Esophagus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU20JZ	Supplement Middle Esophagus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DU20KZ	Supplement Middle Esophagus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU247Z	Supplement Middle Esophagus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU24JZ	Supplement Middle Esophagus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU24KZ	Supplement Middle Esophagus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU277Z	Supplement Middle Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU27JZ	Supplement Middle Esophagus with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU27KZ	Supplement Middle Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU287Z	Supplement Middle Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU28JZ	Supplement Middle Esophagus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU28KZ	Supplement Middle Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU307Z	Supplement Lower Esophagus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU30JZ	Supplement Lower Esophagus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DU30KZ	Supplement Lower Esophagus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU347Z	Supplement Lower Esophagus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU34JZ	Supplement Lower Esophagus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU34KZ	Supplement Lower Esophagus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU377Z	Supplement Lower Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU37JZ	Supplement Lower Esophagus with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU37KZ	Supplement Lower Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU387Z	Supplement Lower Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU38JZ	Supplement Lower Esophagus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU38KZ	Supplement Lower Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU407Z	Supplement Esophagogastric Junction with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DU40JZ	Supplement Esophagogastric Junction with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DU40KZ	Supplement Esophagogastric Junction with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU447Z	Supplement Esophagogastric Junction with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU44JZ	Supplement Esophagogastric Junction with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU44KZ	Supplement Esophagogastric Junction with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU477Z	Supplement Esophagogastric Junction with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU47JZ	Supplement Esophagogastric Junction with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU47KZ	Supplement Esophagogastric Junction with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU487Z	Supplement Esophagogastric Junction with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU48JZ	Supplement Esophagogastric Junction with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU48KZ	Supplement Esophagogastric Junction with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU507Z	Supplement Esophagus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU50JZ	Supplement Esophagus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DU50KZ	Supplement Esophagus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU547Z	Supplement Esophagus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU54JZ	Supplement Esophagus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU54KZ	Supplement Esophagus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU577Z	Supplement Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU57JZ	Supplement Esophagus with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU57KZ	Supplement Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU587Z	Supplement Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU58JZ	Supplement Esophagus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU58KZ	Supplement Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU607Z	Supplement Stomach with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU60JZ	Supplement Stomach with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DU60KZ	Supplement Stomach with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU647Z	Supplement Stomach with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU64JZ	Supplement Stomach with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU64KZ	Supplement Stomach with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU677Z	Supplement Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU67JZ	Supplement Stomach with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU67KZ	Supplement Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU687Z	Supplement Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU68JZ	Supplement Stomach with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU68KZ	Supplement Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU707Z	Supplement Stomach, Pylorus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU70JZ	Supplement Stomach, Pylorus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DU70KZ	Supplement Stomach, Pylorus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU747Z	Supplement Stomach, Pylorus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU74JZ	Supplement Stomach, Pylorus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU74KZ	Supplement Stomach, Pylorus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU777Z	Supplement Stomach, Pylorus with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU77JZ	Supplement Stomach, Pylorus with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU77KZ	Supplement Stomach, Pylorus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU787Z	Supplement Stomach, Pylorus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU78JZ	Supplement Stomach, Pylorus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU78KZ	Supplement Stomach, Pylorus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU807Z	Supplement Small Intestine with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU80JZ	Supplement Small Intestine with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DU80KZ	Supplement Small Intestine with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DU847Z	Supplement Small Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU84JZ	Supplement Small Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU84KZ	Supplement Small Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU877Z	Supplement Small Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU87JZ	Supplement Small Intestine with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU87KZ	Supplement Small Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU887Z	Supplement Small Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU88JZ	Supplement Small Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU88KZ	Supplement Small Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU907Z	Supplement Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU90JZ	Supplement Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DU90KZ	Supplement Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DU947Z	Supplement Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU94JZ	Supplement Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU94KZ	Supplement Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DU977Z	Supplement Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU97JZ	Supplement Duodenum with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU97KZ	Supplement Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DU987Z	Supplement Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU98JZ	Supplement Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DU98KZ	Supplement Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUA07Z	Supplement Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUA0JZ	Supplement Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUA0KZ	Supplement Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUA47Z	Supplement Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DUA4JZ	Supplement Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUA4KZ	Supplement Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUA77Z	Supplement Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUA7JZ	Supplement Jejunum with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUA7KZ	Supplement Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUA87Z	Supplement Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUA8JZ	Supplement Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUA8KZ	Supplement Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUB07Z	Supplement Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUB0JZ	Supplement Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUB0KZ	Supplement Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUB47Z	Supplement Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUB4JZ	Supplement Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUB4KZ	Supplement Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUB77Z	Supplement Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUB7JZ	Supplement Ileum with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUB7KZ	Supplement Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUB87Z	Supplement Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUB8JZ	Supplement Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUB8KZ	Supplement Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUC07Z	Supplement Ileocecal Valve with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUC0JZ	Supplement Ileocecal Valve with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUC0KZ	Supplement Ileocecal Valve with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUC47Z	Supplement Ileocecal Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUC4JZ	Supplement Ileocecal Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUC4KZ	Supplement Ileocecal Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DUC77Z	Supplement Ileocecal Valve with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUC7JZ	Supplement Ileocecal Valve with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUC7KZ	Supplement Ileocecal Valve with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUC87Z	Supplement Ileocecal Valve with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUC8JZ	Supplement Ileocecal Valve with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUC8KZ	Supplement Ileocecal Valve with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUE07Z	Supplement Large Intestine with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUE0JZ	Supplement Large Intestine with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUE0KZ	Supplement Large Intestine with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUE47Z	Supplement Large Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUE4JZ	Supplement Large Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUE4KZ	Supplement Large Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUE77Z	Supplement Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUE7JZ	Supplement Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUE7KZ	Supplement Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUE87Z	Supplement Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUE8JZ	Supplement Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUE8KZ	Supplement Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUF07Z	Supplement Right Large Intestine with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUF0JZ	Supplement Right Large Intestine with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUF0KZ	Supplement Right Large Intestine with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUF47Z	Supplement Right Large Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUF4JZ	Supplement Right Large Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUF4KZ	Supplement Right Large Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DUF77Z	Supplement Right Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUF7JZ	Supplement Right Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUF7KZ	Supplement Right Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUF87Z	Supplement Right Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUF8JZ	Supplement Right Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUF8KZ	Supplement Right Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUG07Z	Supplement Left Large Intestine with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUG0JZ	Supplement Left Large Intestine with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUG0KZ	Supplement Left Large Intestine with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUG47Z	Supplement Left Large Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUG4JZ	Supplement Left Large Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUG4KZ	Supplement Left Large Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUG77Z	Supplement Left Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUG7JZ	Supplement Left Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUG7KZ	Supplement Left Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUG87Z	Supplement Left Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUG8JZ	Supplement Left Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUG8KZ	Supplement Left Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUH07Z	Supplement Cecum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUH0JZ	Supplement Cecum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUH0KZ	Supplement Cecum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUH47Z	Supplement Cecum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUH4JZ	Supplement Cecum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUH4KZ	Supplement Cecum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DUH77Z	Supplement Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUH7JZ	Supplement Cecum with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUH7KZ	Supplement Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUH87Z	Supplement Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUH8JZ	Supplement Cecum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUH8KZ	Supplement Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUK07Z	Supplement Ascending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUK0JZ	Supplement Ascending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUK0KZ	Supplement Ascending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUK47Z	Supplement Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUK4JZ	Supplement Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUK4KZ	Supplement Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUK77Z	Supplement Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUK7JZ	Supplement Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUK7KZ	Supplement Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUK87Z	Supplement Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUK8JZ	Supplement Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUK8KZ	Supplement Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUL07Z	Supplement Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUL0JZ	Supplement Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUL0KZ	Supplement Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUL47Z	Supplement Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUL4JZ	Supplement Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUL4KZ	Supplement Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DUL77Z	Supplement Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUL7JZ	Supplement Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUL7KZ	Supplement Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUL87Z	Supplement Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUL8JZ	Supplement Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUL8KZ	Supplement Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUM07Z	Supplement Descending Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUM0JZ	Supplement Descending Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUM0KZ	Supplement Descending Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUM47Z	Supplement Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUM4JZ	Supplement Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUM4KZ	Supplement Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUM77Z	Supplement Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUM7JZ	Supplement Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUM7KZ	Supplement Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUM87Z	Supplement Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUM8JZ	Supplement Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUM8KZ	Supplement Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUN07Z	Supplement Sigmoid Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUN0JZ	Supplement Sigmoid Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUN0KZ	Supplement Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUN47Z	Supplement Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUN4JZ	Supplement Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUN4KZ	Supplement Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DUN77Z	Supplement Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUN7JZ	Supplement Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUN7KZ	Supplement Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUN87Z	Supplement Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUN8JZ	Supplement Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUN8KZ	Supplement Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUP07Z	Supplement Rectum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUP0JZ	Supplement Rectum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUP0KZ	Supplement Rectum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUP47Z	Supplement Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUP4JZ	Supplement Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUP4KZ	Supplement Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUP77Z	Supplement Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUP7JZ	Supplement Rectum with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUP7KZ	Supplement Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUP87Z	Supplement Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUP8JZ	Supplement Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUP8KZ	Supplement Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUQ07Z	Supplement Anus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUQ0JZ	Supplement Anus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUQ0KZ	Supplement Anus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUQ47Z	Supplement Anus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUQ4JZ	Supplement Anus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUQ4KZ	Supplement Anus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUQ77Z	Supplement Anus with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUQ7JZ	Supplement Anus with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DUQ7KZ	Supplement Anus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DUQ87Z	Supplement Anus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUQ8JZ	Supplement Anus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUQ8KZ	Supplement Anus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DUQX7Z	Supplement Anus with Autologous Tissue Substitute, External Approach	Procedure	ICD-10-PCS
0DUQXJZ	Supplement Anus with Synthetic Substitute, External Approach	Procedure	ICD-10-PCS
0DUQXKZ	Supplement Anus with Nonautologous Tissue Substitute, External Approach	Procedure	ICD-10-PCS
0DUR07Z	Supplement Anal Sphincter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUR0JZ	Supplement Anal Sphincter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUR0KZ	Supplement Anal Sphincter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUR47Z	Supplement Anal Sphincter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUR4JZ	Supplement Anal Sphincter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUR4KZ	Supplement Anal Sphincter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUS07Z	Supplement Greater Omentum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUS0JZ	Supplement Greater Omentum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUS0KZ	Supplement Greater Omentum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUS47Z	Supplement Greater Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUS4JZ	Supplement Greater Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUS4KZ	Supplement Greater Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUT07Z	Supplement Lesser Omentum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUT0JZ	Supplement Lesser Omentum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUT0KZ	Supplement Lesser Omentum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUT47Z	Supplement Lesser Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUT4JZ	Supplement Lesser Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUT4KZ	Supplement Lesser Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUU07Z	Supplement Omentum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUU0JZ	Supplement Omentum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DUU0KZ	Supplement Omentum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUU47Z	Supplement Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUU4JZ	Supplement Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUU4KZ	Supplement Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUV07Z	Supplement Mesentery with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUV0JZ	Supplement Mesentery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUV0KZ	Supplement Mesentery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUV47Z	Supplement Mesentery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUV4JZ	Supplement Mesentery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUV4KZ	Supplement Mesentery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUW07Z	Supplement Peritoneum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUW0JZ	Supplement Peritoneum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0DUW0KZ	Supplement Peritoneum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0DUW47Z	Supplement Peritoneum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUW4JZ	Supplement Peritoneum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DUW4KZ	Supplement Peritoneum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV10CZ	Restriction of Upper Esophagus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV10DZ	Restriction of Upper Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV10ZZ	Restriction of Upper Esophagus, Open Approach	Procedure	ICD-10-PCS
0DV13CZ	Restriction of Upper Esophagus with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV13DZ	Restriction of Upper Esophagus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV13ZZ	Restriction of Upper Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DV14CZ	Restriction of Upper Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV14DZ	Restriction of Upper Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV14ZZ	Restriction of Upper Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV17DZ	Restriction of Upper Esophagus with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV17ZZ	Restriction of Upper Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV18DZ	Restriction of Upper Esophagus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV18ZZ	Restriction of Upper Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV20CZ	Restriction of Middle Esophagus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DV20DZ	Restriction of Middle Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV20ZZ	Restriction of Middle Esophagus, Open Approach	Procedure	ICD-10-PCS
0DV23CZ	Restriction of Middle Esophagus with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV23DZ	Restriction of Middle Esophagus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV23ZZ	Restriction of Middle Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DV24CZ	Restriction of Middle Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV24DZ	Restriction of Middle Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV24ZZ	Restriction of Middle Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV27DZ	Restriction of Middle Esophagus with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV27ZZ	Restriction of Middle Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV28DZ	Restriction of Middle Esophagus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV28ZZ	Restriction of Middle Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV30CZ	Restriction of Lower Esophagus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV30DZ	Restriction of Lower Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV30ZZ	Restriction of Lower Esophagus, Open Approach	Procedure	ICD-10-PCS
0DV33CZ	Restriction of Lower Esophagus with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV33DZ	Restriction of Lower Esophagus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV33ZZ	Restriction of Lower Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DV34CZ	Restriction of Lower Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV34DZ	Restriction of Lower Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV34ZZ	Restriction of Lower Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV37DZ	Restriction of Lower Esophagus with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV37ZZ	Restriction of Lower Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV38DZ	Restriction of Lower Esophagus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV38ZZ	Restriction of Lower Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV40CZ	Restriction of Esophagogastric Junction with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV40DZ	Restriction of Esophagogastric Junction with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV40ZZ	Restriction of Esophagogastric Junction, Open Approach	Procedure	ICD-10-PCS
0DV43CZ	Restriction of Esophagogastric Junction with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DV43DZ	Restriction of Esophagogastric Junction with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV43ZZ	Restriction of Esophagogastric Junction, Percutaneous Approach	Procedure	ICD-10-PCS
0DV44CZ	Restriction of Esophagogastric Junction with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV44DZ	Restriction of Esophagogastric Junction with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV44ZZ	Restriction of Esophagogastric Junction, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV47DZ	Restriction of Esophagogastric Junction with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV47ZZ	Restriction of Esophagogastric Junction, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV48DZ	Restriction of Esophagogastric Junction with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV48ZZ	Restriction of Esophagogastric Junction, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV50CZ	Restriction of Esophagus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV50DZ	Restriction of Esophagus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV50ZZ	Restriction of Esophagus, Open Approach	Procedure	ICD-10-PCS
0DV53CZ	Restriction of Esophagus with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV53DZ	Restriction of Esophagus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV53ZZ	Restriction of Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DV54CZ	Restriction of Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV54DZ	Restriction of Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV54ZZ	Restriction of Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV57DZ	Restriction of Esophagus with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV57ZZ	Restriction of Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV58DZ	Restriction of Esophagus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV58ZZ	Restriction of Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV60CZ	Restriction of Stomach with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV60DZ	Restriction of Stomach with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV60ZZ	Restriction of Stomach, Open Approach	Procedure	ICD-10-PCS
0DV63CZ	Restriction of Stomach with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV63DZ	Restriction of Stomach with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV63ZZ	Restriction of Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DV64CZ	Restriction of Stomach with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV64DZ	Restriction of Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV64ZZ	Restriction of Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV67ZZ	Restriction of Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV68ZZ	Restriction of Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DV70CZ	Restriction of Stomach, Pylorus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV70DZ	Restriction of Stomach, Pylorus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV70ZZ	Restriction of Stomach, Pylorus, Open Approach	Procedure	ICD-10-PCS
0DV73CZ	Restriction of Stomach, Pylorus with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV73DZ	Restriction of Stomach, Pylorus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV73ZZ	Restriction of Stomach, Pylorus, Percutaneous Approach	Procedure	ICD-10-PCS
0DV74CZ	Restriction of Stomach, Pylorus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV74DZ	Restriction of Stomach, Pylorus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV74ZZ	Restriction of Stomach, Pylorus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV77DZ	Restriction of Stomach, Pylorus with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV77ZZ	Restriction of Stomach, Pylorus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV78DZ	Restriction of Stomach, Pylorus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV78ZZ	Restriction of Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV80CZ	Restriction of Small Intestine with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV80DZ	Restriction of Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV80ZZ	Restriction of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DV83CZ	Restriction of Small Intestine with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV83DZ	Restriction of Small Intestine with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV83ZZ	Restriction of Small Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DV84CZ	Restriction of Small Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV84DZ	Restriction of Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV84ZZ	Restriction of Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV87DZ	Restriction of Small Intestine with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV87ZZ	Restriction of Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV88DZ	Restriction of Small Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV88ZZ	Restriction of Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV90CZ	Restriction of Duodenum with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV90DZ	Restriction of Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DV90ZZ	Restriction of Duodenum, Open Approach	Procedure	ICD-10-PCS
0DV93CZ	Restriction of Duodenum with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV93DZ	Restriction of Duodenum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DV93ZZ	Restriction of Duodenum, Percutaneous Approach	Procedure	ICD-10-PCS
0DV94CZ	Restriction of Duodenum with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DV94DZ	Restriction of Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV94ZZ	Restriction of Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV97DZ	Restriction of Duodenum with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV97ZZ	Restriction of Duodenum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DV98DZ	Restriction of Duodenum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DV98ZZ	Restriction of Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVA0CZ	Restriction of Jejunum with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVA0DZ	Restriction of Jejunum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVA0ZZ	Restriction of Jejunum, Open Approach	Procedure	ICD-10-PCS
0DVA3CZ	Restriction of Jejunum with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVA3DZ	Restriction of Jejunum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVA3ZZ	Restriction of Jejunum, Percutaneous Approach	Procedure	ICD-10-PCS
0DVA4CZ	Restriction of Jejunum with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVA4DZ	Restriction of Jejunum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVA4ZZ	Restriction of Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVA7DZ	Restriction of Jejunum with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVA7ZZ	Restriction of Jejunum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVA8DZ	Restriction of Jejunum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVA8ZZ	Restriction of Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVB0CZ	Restriction of Ileum with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVB0DZ	Restriction of Ileum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVB0ZZ	Restriction of Ileum, Open Approach	Procedure	ICD-10-PCS
0DVB3CZ	Restriction of Ileum with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVB3DZ	Restriction of Ileum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVB3ZZ	Restriction of Ileum, Percutaneous Approach	Procedure	ICD-10-PCS
0DVB4CZ	Restriction of Ileum with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVB4DZ	Restriction of Ileum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVB4ZZ	Restriction of Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVB7DZ	Restriction of Ileum with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVB7ZZ	Restriction of Ileum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVB8DZ	Restriction of Ileum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVB8ZZ	Restriction of Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVC0CZ	Restriction of Ileocecal Valve with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVC0DZ	Restriction of Ileocecal Valve with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVC0ZZ	Restriction of Ileocecal Valve, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DVC3CZ	Restriction of Ileocecal Valve with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVC3DZ	Restriction of Ileocecal Valve with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVC3ZZ	Restriction of Ileocecal Valve, Percutaneous Approach	Procedure	ICD-10-PCS
0DVC4CZ	Restriction of Ileocecal Valve with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVC4DZ	Restriction of Ileocecal Valve with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVC4ZZ	Restriction of Ileocecal Valve, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVC7DZ	Restriction of Ileocecal Valve with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVC7ZZ	Restriction of Ileocecal Valve, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVC8DZ	Restriction of Ileocecal Valve with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVC8ZZ	Restriction of Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVE0CZ	Restriction of Large Intestine with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVE0DZ	Restriction of Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVE0ZZ	Restriction of Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DVE3CZ	Restriction of Large Intestine with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVE3DZ	Restriction of Large Intestine with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVE3ZZ	Restriction of Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DVE4CZ	Restriction of Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVE4DZ	Restriction of Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVE4ZZ	Restriction of Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVE7DZ	Restriction of Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVE7ZZ	Restriction of Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVE8DZ	Restriction of Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVE8ZZ	Restriction of Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVF0CZ	Restriction of Right Large Intestine with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVF0DZ	Restriction of Right Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVF0ZZ	Restriction of Right Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DVF3CZ	Restriction of Right Large Intestine with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVF3DZ	Restriction of Right Large Intestine with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVF3ZZ	Restriction of Right Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DVF4CZ	Restriction of Right Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVF4DZ	Restriction of Right Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVF4ZZ	Restriction of Right Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DVF7DZ	Restriction of Right Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVF7ZZ	Restriction of Right Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVF8DZ	Restriction of Right Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVF8ZZ	Restriction of Right Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVG0CZ	Restriction of Left Large Intestine with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVG0DZ	Restriction of Left Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVG0ZZ	Restriction of Left Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DVG3CZ	Restriction of Left Large Intestine with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVG3DZ	Restriction of Left Large Intestine with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVG3ZZ	Restriction of Left Large Intestine, Percutaneous Approach	Procedure	ICD-10-PCS
0DVG4CZ	Restriction of Left Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVG4DZ	Restriction of Left Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVG4ZZ	Restriction of Left Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVG7DZ	Restriction of Left Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVG7ZZ	Restriction of Left Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVG8DZ	Restriction of Left Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVG8ZZ	Restriction of Left Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVH0CZ	Restriction of Cecum with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVH0DZ	Restriction of Cecum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVH0ZZ	Restriction of Cecum, Open Approach	Procedure	ICD-10-PCS
0DVH3CZ	Restriction of Cecum with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVH3DZ	Restriction of Cecum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVH3ZZ	Restriction of Cecum, Percutaneous Approach	Procedure	ICD-10-PCS
0DVH4CZ	Restriction of Cecum with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVH4DZ	Restriction of Cecum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVH4ZZ	Restriction of Cecum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVH7DZ	Restriction of Cecum with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVH7ZZ	Restriction of Cecum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVH8DZ	Restriction of Cecum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVH8ZZ	Restriction of Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVK0CZ	Restriction of Ascending Colon with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVK0DZ	Restriction of Ascending Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVK0ZZ	Restriction of Ascending Colon, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DVK3CZ	Restriction of Ascending Colon with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVK3DZ	Restriction of Ascending Colon with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVK3ZZ	Restriction of Ascending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DVK4CZ	Restriction of Ascending Colon with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVK4DZ	Restriction of Ascending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVK4ZZ	Restriction of Ascending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVK7DZ	Restriction of Ascending Colon with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVK7ZZ	Restriction of Ascending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVK8DZ	Restriction of Ascending Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVK8ZZ	Restriction of Ascending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVL0CZ	Restriction of Transverse Colon with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVL0DZ	Restriction of Transverse Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVL0ZZ	Restriction of Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0DVL3CZ	Restriction of Transverse Colon with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVL3DZ	Restriction of Transverse Colon with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVL3ZZ	Restriction of Transverse Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DVL4CZ	Restriction of Transverse Colon with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVL4DZ	Restriction of Transverse Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVL4ZZ	Restriction of Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVL7DZ	Restriction of Transverse Colon with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVL7ZZ	Restriction of Transverse Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVL8DZ	Restriction of Transverse Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVL8ZZ	Restriction of Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVM0CZ	Restriction of Descending Colon with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVM0DZ	Restriction of Descending Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVM0ZZ	Restriction of Descending Colon, Open Approach	Procedure	ICD-10-PCS
0DVM3CZ	Restriction of Descending Colon with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVM3DZ	Restriction of Descending Colon with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVM3ZZ	Restriction of Descending Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DVM4CZ	Restriction of Descending Colon with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DVM4DZ	Restriction of Descending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVM4ZZ	Restriction of Descending Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVM7DZ	Restriction of Descending Colon with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVM7ZZ	Restriction of Descending Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVM8DZ	Restriction of Descending Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVM8ZZ	Restriction of Descending Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVN0CZ	Restriction of Sigmoid Colon with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVN0DZ	Restriction of Sigmoid Colon with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVN0ZZ	Restriction of Sigmoid Colon, Open Approach	Procedure	ICD-10-PCS
0DVN3CZ	Restriction of Sigmoid Colon with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVN3DZ	Restriction of Sigmoid Colon with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVN3ZZ	Restriction of Sigmoid Colon, Percutaneous Approach	Procedure	ICD-10-PCS
0DVN4CZ	Restriction of Sigmoid Colon with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVN4DZ	Restriction of Sigmoid Colon with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVN4ZZ	Restriction of Sigmoid Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVN7DZ	Restriction of Sigmoid Colon with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVN7ZZ	Restriction of Sigmoid Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVN8DZ	Restriction of Sigmoid Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVN8ZZ	Restriction of Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVP0CZ	Restriction of Rectum with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVP0DZ	Restriction of Rectum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVP0ZZ	Restriction of Rectum, Open Approach	Procedure	ICD-10-PCS
0DVP3CZ	Restriction of Rectum with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVP3DZ	Restriction of Rectum with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVP3ZZ	Restriction of Rectum, Percutaneous Approach	Procedure	ICD-10-PCS
0DVP4CZ	Restriction of Rectum with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVP4DZ	Restriction of Rectum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVP4ZZ	Restriction of Rectum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVP7DZ	Restriction of Rectum with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVP7ZZ	Restriction of Rectum, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVP8DZ	Restriction of Rectum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVP8ZZ	Restriction of Rectum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVQ0CZ	Restriction of Anus with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVQ0DZ	Restriction of Anus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0DVQ0ZZ	Restriction of Anus, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DVQ3CZ	Restriction of Anus with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVQ3DZ	Restriction of Anus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0DVQ3ZZ	Restriction of Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DVQ4CZ	Restriction of Anus with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVQ4DZ	Restriction of Anus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVQ4ZZ	Restriction of Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DVQ7DZ	Restriction of Anus with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVQ7ZZ	Restriction of Anus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DVQ8DZ	Restriction of Anus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVQ8ZZ	Restriction of Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DVQXCZ	Restriction of Anus with Extraluminal Device, External Approach	Procedure	ICD-10-PCS
0DVQXDZ	Restriction of Anus with Intraluminal Device, External Approach	Procedure	ICD-10-PCS
0DVQXZZ	Restriction of Anus, External Approach	Procedure	ICD-10-PCS
0DW000Z	Revision of Drainage Device in Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DW002Z	Revision of Monitoring Device in Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DW003Z	Revision of Infusion Device in Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DW007Z	Revision of Autologous Tissue Substitute in Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DW00CZ	Revision of Extraluminal Device in Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DW00DZ	Revision of Intraluminal Device in Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DW00JZ	Revision of Synthetic Substitute in Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DW00KZ	Revision of Nonautologous Tissue Substitute in Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DW00UZ	Revision of Feeding Device in Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DW00YZ	Revision of Other Device in Upper Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DW030Z	Revision of Drainage Device in Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DW032Z	Revision of Monitoring Device in Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DW033Z	Revision of Infusion Device in Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DW037Z	Revision of Autologous Tissue Substitute in Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DW03CZ	Revision of Extraluminal Device in Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DW03DZ	Revision of Intraluminal Device in Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DW03JZ	Revision of Synthetic Substitute in Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DW03KZ	Revision of Nonautologous Tissue Substitute in Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DW03UZ	Revision of Feeding Device in Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DW03YZ	Revision of Other Device in Upper Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DW040Z	Revision of Drainage Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DW042Z	Revision of Monitoring Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW043Z	Revision of Infusion Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW047Z	Revision of Autologous Tissue Substitute in Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW04CZ	Revision of Extraluminal Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW04DZ	Revision of Intraluminal Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW04JZ	Revision of Synthetic Substitute in Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW04KZ	Revision of Nonautologous Tissue Substitute in Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW04UZ	Revision of Feeding Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW04YZ	Revision of Other Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW072Z	Revision of Monitoring Device in Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW073Z	Revision of Infusion Device in Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW077Z	Revision of Autologous Tissue Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW07CZ	Revision of Extraluminal Device in Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW07DZ	Revision of Intraluminal Device in Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW07JZ	Revision of Synthetic Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW07KZ	Revision of Nonautologous Tissue Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW082Z	Revision of Monitoring Device in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW083Z	Revision of Infusion Device in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW087Z	Revision of Autologous Tissue Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW08CZ	Revision of Extraluminal Device in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW08DZ	Revision of Intraluminal Device in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW08JZ	Revision of Synthetic Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DW08KZ	Revision of Nonautologous Tissue Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW50YZ	Revision of Other Device in Esophagus, Open Approach	Procedure	ICD-10-PCS
0DW53YZ	Revision of Other Device in Esophagus, Percutaneous Approach	Procedure	ICD-10-PCS
0DW54YZ	Revision of Other Device in Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW57DZ	Revision of Intraluminal Device in Esophagus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW58DZ	Revision of Intraluminal Device in Esophagus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW600Z	Revision of Drainage Device in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW602Z	Revision of Monitoring Device in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW603Z	Revision of Infusion Device in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW607Z	Revision of Autologous Tissue Substitute in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW60CZ	Revision of Extraluminal Device in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW60DZ	Revision of Intraluminal Device in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW60JZ	Revision of Synthetic Substitute in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW60KZ	Revision of Nonautologous Tissue Substitute in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW60MZ	Revision of Stimulator Lead in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW60UZ	Revision of Feeding Device in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW60YZ	Revision of Other Device in Stomach, Open Approach	Procedure	ICD-10-PCS
0DW630Z	Revision of Drainage Device in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW632Z	Revision of Monitoring Device in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW633Z	Revision of Infusion Device in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW637Z	Revision of Autologous Tissue Substitute in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW63CZ	Revision of Extraluminal Device in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW63DZ	Revision of Intraluminal Device in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW63JZ	Revision of Synthetic Substitute in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW63KZ	Revision of Nonautologous Tissue Substitute in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW63MZ	Revision of Stimulator Lead in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW63UZ	Revision of Feeding Device in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW63YZ	Revision of Other Device in Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DW640Z	Revision of Drainage Device in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW642Z	Revision of Monitoring Device in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW643Z	Revision of Infusion Device in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW647Z	Revision of Autologous Tissue Substitute in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW64CZ	Revision of Extraluminal Device in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW64DZ	Revision of Intraluminal Device in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW64JZ	Revision of Synthetic Substitute in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW64KZ	Revision of Nonautologous Tissue Substitute in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW64MZ	Revision of Stimulator Lead in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW64UZ	Revision of Feeding Device in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW64YZ	Revision of Other Device in Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DW672Z	Revision of Monitoring Device in Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW673Z	Revision of Infusion Device in Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW677Z	Revision of Autologous Tissue Substitute in Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW67CZ	Revision of Extraluminal Device in Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW67DZ	Revision of Intraluminal Device in Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW67JZ	Revision of Synthetic Substitute in Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW67KZ	Revision of Nonautologous Tissue Substitute in Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW67YZ	Revision of Other Device in Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW682Z	Revision of Monitoring Device in Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW683Z	Revision of Infusion Device in Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW687Z	Revision of Autologous Tissue Substitute in Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW68CZ	Revision of Extraluminal Device in Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW68DZ	Revision of Intraluminal Device in Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW68JZ	Revision of Synthetic Substitute in Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW68KZ	Revision of Nonautologous Tissue Substitute in Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW68YZ	Revision of Other Device in Stomach, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW807Z	Revision of Autologous Tissue Substitute in Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DW80JZ	Revision of Synthetic Substitute in Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DW80KZ	Revision of Nonautologous Tissue Substitute in Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DW847Z	Revision of Autologous Tissue Substitute in Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW84JZ	Revision of Synthetic Substitute in Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW84KZ	Revision of Nonautologous Tissue Substitute in Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DW877Z	Revision of Autologous Tissue Substitute in Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW87JZ	Revision of Synthetic Substitute in Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW87KZ	Revision of Nonautologous Tissue Substitute in Small Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DW887Z	Revision of Autologous Tissue Substitute in Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DW88JZ	Revision of Synthetic Substitute in Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DW88KZ	Revision of Nonautologous Tissue Substitute in Small Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWD00Z	Revision of Drainage Device in Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DWD02Z	Revision of Monitoring Device in Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DWD03Z	Revision of Infusion Device in Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DWD07Z	Revision of Autologous Tissue Substitute in Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DWD0CZ	Revision of Extraluminal Device in Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DWD0DZ	Revision of Intraluminal Device in Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DWD0JZ	Revision of Synthetic Substitute in Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DWD0KZ	Revision of Nonautologous Tissue Substitute in Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DWD0UZ	Revision of Feeding Device in Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DWD0YZ	Revision of Other Device in Lower Intestinal Tract, Open Approach	Procedure	ICD-10-PCS
0DWD30Z	Revision of Drainage Device in Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DWD32Z	Revision of Monitoring Device in Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DWD33Z	Revision of Infusion Device in Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DWD37Z	Revision of Autologous Tissue Substitute in Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DWD3CZ	Revision of Extraluminal Device in Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DWD3DZ	Revision of Intraluminal Device in Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DWD3JZ	Revision of Synthetic Substitute in Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DWD3KZ	Revision of Nonautologous Tissue Substitute in Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DWD3UZ	Revision of Feeding Device in Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DWD3YZ	Revision of Other Device in Lower Intestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0DWD40Z	Revision of Drainage Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWD42Z	Revision of Monitoring Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWD43Z	Revision of Infusion Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWD47Z	Revision of Autologous Tissue Substitute in Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWD4CZ	Revision of Extraluminal Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWD4DZ	Revision of Intraluminal Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWD4JZ	Revision of Synthetic Substitute in Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWD4KZ	Revision of Nonautologous Tissue Substitute in Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DWD4UZ	Revision of Feeding Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWD4YZ	Revision of Other Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWD72Z	Revision of Monitoring Device in Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DWD73Z	Revision of Infusion Device in Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DWD77Z	Revision of Autologous Tissue Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DWD7CZ	Revision of Extraluminal Device in Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DWD7DZ	Revision of Intraluminal Device in Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DWD7JZ	Revision of Synthetic Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DWD7KZ	Revision of Nonautologous Tissue Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DWD82Z	Revision of Monitoring Device in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWD83Z	Revision of Infusion Device in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWD87Z	Revision of Autologous Tissue Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWD8CZ	Revision of Extraluminal Device in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWD8DZ	Revision of Intraluminal Device in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWD8JZ	Revision of Synthetic Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWD8KZ	Revision of Nonautologous Tissue Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWE07Z	Revision of Autologous Tissue Substitute in Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DWE0JZ	Revision of Synthetic Substitute in Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DWE0KZ	Revision of Nonautologous Tissue Substitute in Large Intestine, Open Approach	Procedure	ICD-10-PCS
0DWE47Z	Revision of Autologous Tissue Substitute in Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWE4JZ	Revision of Synthetic Substitute in Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWE4KZ	Revision of Nonautologous Tissue Substitute in Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWE77Z	Revision of Autologous Tissue Substitute in Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DWE7JZ	Revision of Synthetic Substitute in Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DWE7KZ	Revision of Nonautologous Tissue Substitute in Large Intestine, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DWE87Z	Revision of Autologous Tissue Substitute in Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWE8JZ	Revision of Synthetic Substitute in Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWE8KZ	Revision of Nonautologous Tissue Substitute in Large Intestine, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWQ0LZ	Revision of Artificial Sphincter in Anus, Open Approach	Procedure	ICD-10-PCS
0DWQ3LZ	Revision of Artificial Sphincter in Anus, Percutaneous Approach	Procedure	ICD-10-PCS
0DWQ4LZ	Revision of Artificial Sphincter in Anus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWQ7LZ	Revision of Artificial Sphincter in Anus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DWQ8LZ	Revision of Artificial Sphincter in Anus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DWR0MZ	Revision of Stimulator Lead in Anal Sphincter, Open Approach	Procedure	ICD-10-PCS
0DWR3MZ	Revision of Stimulator Lead in Anal Sphincter, Percutaneous Approach	Procedure	ICD-10-PCS
0DWR4MZ	Revision of Stimulator Lead in Anal Sphincter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWU00Z	Revision of Drainage Device in Omentum, Open Approach	Procedure	ICD-10-PCS
0DWU07Z	Revision of Autologous Tissue Substitute in Omentum, Open Approach	Procedure	ICD-10-PCS
0DWU0JZ	Revision of Synthetic Substitute in Omentum, Open Approach	Procedure	ICD-10-PCS
0DWU0KZ	Revision of Nonautologous Tissue Substitute in Omentum, Open Approach	Procedure	ICD-10-PCS
0DWU37Z	Revision of Autologous Tissue Substitute in Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DWU3JZ	Revision of Synthetic Substitute in Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DWU3KZ	Revision of Nonautologous Tissue Substitute in Omentum, Percutaneous Approach	Procedure	ICD-10-PCS
0DWU40Z	Revision of Drainage Device in Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWU47Z	Revision of Autologous Tissue Substitute in Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWU4JZ	Revision of Synthetic Substitute in Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWU4KZ	Revision of Nonautologous Tissue Substitute in Omentum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWV00Z	Revision of Drainage Device in Mesentery, Open Approach	Procedure	ICD-10-PCS
0DWV07Z	Revision of Autologous Tissue Substitute in Mesentery, Open Approach	Procedure	ICD-10-PCS
0DWV0JZ	Revision of Synthetic Substitute in Mesentery, Open Approach	Procedure	ICD-10-PCS
0DWV0KZ	Revision of Nonautologous Tissue Substitute in Mesentery, Open Approach	Procedure	ICD-10-PCS
0DWV37Z	Revision of Autologous Tissue Substitute in Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DWV3JZ	Revision of Synthetic Substitute in Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DWV3KZ	Revision of Nonautologous Tissue Substitute in Mesentery, Percutaneous Approach	Procedure	ICD-10-PCS
0DWV40Z	Revision of Drainage Device in Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWV47Z	Revision of Autologous Tissue Substitute in Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DWV4JZ	Revision of Synthetic Substitute in Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWV4KZ	Revision of Nonautologous Tissue Substitute in Mesentery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWW00Z	Revision of Drainage Device in Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DWW07Z	Revision of Autologous Tissue Substitute in Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DWW0JZ	Revision of Synthetic Substitute in Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DWW0KZ	Revision of Nonautologous Tissue Substitute in Peritoneum, Open Approach	Procedure	ICD-10-PCS
0DWW37Z	Revision of Autologous Tissue Substitute in Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DWW3JZ	Revision of Synthetic Substitute in Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DWW3KZ	Revision of Nonautologous Tissue Substitute in Peritoneum, Percutaneous Approach	Procedure	ICD-10-PCS
0DWW40Z	Revision of Drainage Device in Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWW47Z	Revision of Autologous Tissue Substitute in Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWW4JZ	Revision of Synthetic Substitute in Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DWW4KZ	Revision of Nonautologous Tissue Substitute in Peritoneum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DX60Z5	Transfer Stomach to Esophagus, Open Approach	Procedure	ICD-10-PCS
0DX64Z5	Transfer Stomach to Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DX80Z5	Transfer Small Intestine to Esophagus, Open Approach	Procedure	ICD-10-PCS
0DX80ZB	Transfer Small Intestine to Bladder, Open Approach	Procedure	ICD-10-PCS
0DX80ZC	Transfer Small Intestine to Right Ureter, Open Approach	Procedure	ICD-10-PCS
0DX80ZD	Transfer Small Intestine to Left Ureter, Open Approach	Procedure	ICD-10-PCS
0DX80ZF	Transfer Small Intestine to Bilateral Ureters, Open Approach	Procedure	ICD-10-PCS
0DX84Z5	Transfer Small Intestine to Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DX84ZB	Transfer Small Intestine to Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DX84ZC	Transfer Small Intestine to Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DX84ZD	Transfer Small Intestine to Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DX84ZF	Transfer Small Intestine to Bilateral Ureters, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DXE0Z5	Transfer Large Intestine to Esophagus, Open Approach	Procedure	ICD-10-PCS
0DXE0Z7	Transfer Large Intestine to Vagina, Open Approach	Procedure	ICD-10-PCS
0DXE0ZB	Transfer Large Intestine to Bladder, Open Approach	Procedure	ICD-10-PCS
0DXE4Z5	Transfer Large Intestine to Esophagus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DXE4Z7	Transfer Large Intestine to Vagina, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DXE4ZB	Transfer Large Intestine to Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DXU0ZV	Transfer omentum to thoracic region, open approach	Procedure	ICD-10-PCS
0DXU0ZW	Transfer omentum to abdominal region, open approach	Procedure	ICD-10-PCS
0DXU0ZX	Transfer omentum to pelvic region, open approach	Procedure	ICD-10-PCS
0DXU0ZY	Transfer omentum to inguinal region, open approach	Procedure	ICD-10-PCS
0DXU4ZV	Transfer omentum to thoracic region, percutaneous endoscopic approach	Procedure	ICD-10-PCS
0DXU4ZW	Transfer omentum to abdominal region, percutaneous endoscopic approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0DXU4ZX	Transfer omentum to pelvic region, percutaneous endoscopic approach	Procedure	ICD-10-PCS
0DXU4ZY	Transfer omentum to inguinal region, percutaneous endoscopic approach	Procedure	ICD-10-PCS
0DY60Z0	Transplantation of Stomach, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0DY60Z1	Transplantation of Stomach, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0DY60Z2	Transplantation of Stomach, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0DY80Z0	Transplantation of Small Intestine, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0DY80Z1	Transplantation of Small Intestine, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0DY80Z2	Transplantation of Small Intestine, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0DYE0Z0	Transplantation of Large Intestine, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0DYE0Z1	Transplantation of Large Intestine, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0DYE0Z2	Transplantation of Large Intestine, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0F140D3	Bypass Gallbladder to Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F140D4	Bypass Gallbladder to Stomach with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F140D5	Bypass Gallbladder to Right Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F140D6	Bypass Gallbladder to Left Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F140D7	Bypass Gallbladder to Caudate Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F140D8	Bypass Gallbladder to Cystic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F140D9	Bypass Gallbladder to Common Bile Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F140DB	Bypass Gallbladder to Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F140Z3	Bypass Gallbladder to Duodenum, Open Approach	Procedure	ICD-10-PCS
0F140Z4	Bypass Gallbladder to Stomach, Open Approach	Procedure	ICD-10-PCS
0F140Z5	Bypass Gallbladder to Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F140Z6	Bypass Gallbladder to Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F140Z7	Bypass Gallbladder to Caudate Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F140Z8	Bypass Gallbladder to Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0F140Z9	Bypass Gallbladder to Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0F140ZB	Bypass Gallbladder to Small Intestine, Open Approach	Procedure	ICD-10-PCS
0F144D3	Bypass Gallbladder to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144D4	Bypass Gallbladder to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144D5	Bypass Gallbladder to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144D6	Bypass Gallbladder to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144D7	Bypass Gallbladder to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144D8	Bypass Gallbladder to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144D9	Bypass Gallbladder to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F144DB	Bypass Gallbladder to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144Z3	Bypass Gallbladder to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144Z4	Bypass Gallbladder to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144Z5	Bypass Gallbladder to Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144Z6	Bypass Gallbladder to Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144Z7	Bypass Gallbladder to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144Z8	Bypass Gallbladder to Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144Z9	Bypass Gallbladder to Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F144ZB	Bypass Gallbladder to Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F150D3	Bypass Right Hepatic Duct to Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F150D4	Bypass Right Hepatic Duct to Stomach with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F150D5	Bypass Right Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F150D6	Bypass Right Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F150D7	Bypass Right Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F150D8	Bypass Right Hepatic Duct to Cystic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F150D9	Bypass Right Hepatic Duct to Common Bile Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F150DB	Bypass Right Hepatic Duct to Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F150Z3	Bypass Right Hepatic Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0F150Z4	Bypass Right Hepatic Duct to Stomach, Open Approach	Procedure	ICD-10-PCS
0F150Z5	Bypass Right Hepatic Duct to Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F150Z6	Bypass Right Hepatic Duct to Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F150Z7	Bypass Right Hepatic Duct to Caudate Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F150Z8	Bypass Right Hepatic Duct to Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0F150Z9	Bypass Right Hepatic Duct to Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0F150ZB	Bypass Right Hepatic Duct to Small Intestine, Open Approach	Procedure	ICD-10-PCS
0F154D3	Bypass Right Hepatic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154D4	Bypass Right Hepatic Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154D5	Bypass Right Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154D6	Bypass Right Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154D7	Bypass Right Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F154D8	Bypass Right Hepatic Duct to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154D9	Bypass Right Hepatic Duct to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154DB	Bypass Right Hepatic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154Z3	Bypass Right Hepatic Duct to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154Z4	Bypass Right Hepatic Duct to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154Z5	Bypass Right Hepatic Duct to Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154Z6	Bypass Right Hepatic Duct to Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154Z7	Bypass Right Hepatic Duct to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154Z8	Bypass Right Hepatic Duct to Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154Z9	Bypass Right Hepatic Duct to Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F154ZB	Bypass Right Hepatic Duct to Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F160D3	Bypass Left Hepatic Duct to Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F160D4	Bypass Left Hepatic Duct to Stomach with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F160D5	Bypass Left Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F160D6	Bypass Left Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F160D7	Bypass Left Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F160D8	Bypass Left Hepatic Duct to Cystic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F160D9	Bypass Left Hepatic Duct to Common Bile Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F160DB	Bypass Left Hepatic Duct to Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F160Z3	Bypass Left Hepatic Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0F160Z4	Bypass Left Hepatic Duct to Stomach, Open Approach	Procedure	ICD-10-PCS
0F160Z5	Bypass Left Hepatic Duct to Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F160Z6	Bypass Left Hepatic Duct to Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F160Z7	Bypass Left Hepatic Duct to Caudate Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F160Z8	Bypass Left Hepatic Duct to Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0F160Z9	Bypass Left Hepatic Duct to Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0F160ZB	Bypass Left Hepatic Duct to Small Intestine, Open Approach	Procedure	ICD-10-PCS
0F164D3	Bypass Left Hepatic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F164D4	Bypass Left Hepatic Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164D5	Bypass Left Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164D6	Bypass Left Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164D7	Bypass Left Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164D8	Bypass Left Hepatic Duct to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164D9	Bypass Left Hepatic Duct to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164DB	Bypass Left Hepatic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164Z3	Bypass Left Hepatic Duct to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164Z4	Bypass Left Hepatic Duct to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164Z5	Bypass Left Hepatic Duct to Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164Z6	Bypass Left Hepatic Duct to Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164Z7	Bypass Left Hepatic Duct to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164Z8	Bypass Left Hepatic Duct to Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164Z9	Bypass Left Hepatic Duct to Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F164ZB	Bypass Left Hepatic Duct to Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F170D3	Bypass Common Hepatic Duct to Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F170D4	Bypass Common Hepatic Duct to Stomach with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F170D5	Bypass Common Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F170D6	Bypass Common Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F170D7	Bypass Common Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F170D8	Bypass Common Hepatic Duct to Cystic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F170D9	Bypass Common Hepatic Duct to Common Bile Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F170DB	Bypass Common Hepatic Duct to Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F170Z3	Bypass Common Hepatic Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0F170Z4	Bypass Common Hepatic Duct to Stomach, Open Approach	Procedure	ICD-10-PCS
0F170Z5	Bypass Common Hepatic Duct to Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F170Z6	Bypass Common Hepatic Duct to Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F170Z7	Bypass Common Hepatic Duct to Caudate Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F170Z8	Bypass Common Hepatic Duct to Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0F170Z9	Bypass Common Hepatic Duct to Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0F170ZB	Bypass Common Hepatic Duct to Small Intestine, Open Approach	Procedure	ICD-10-PCS
0F174D3	Bypass Common Hepatic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174D4	Bypass Common Hepatic Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174D5	Bypass Common Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174D6	Bypass Common Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174D7	Bypass Common Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174D8	Bypass Common Hepatic Duct to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174D9	Bypass Common Hepatic Duct to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174DB	Bypass Common Hepatic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174Z3	Bypass Common Hepatic Duct to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174Z4	Bypass Common Hepatic Duct to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174Z5	Bypass Common Hepatic Duct to Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174Z6	Bypass Common Hepatic Duct to Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174Z7	Bypass Common Hepatic Duct to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174Z8	Bypass Common Hepatic Duct to Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174Z9	Bypass Common Hepatic Duct to Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F174ZB	Bypass Common Hepatic Duct to Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F180D3	Bypass Cystic Duct to Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F180D4	Bypass Cystic Duct to Stomach with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F180D5	Bypass Cystic Duct to Right Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F180D6	Bypass Cystic Duct to Left Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F180D7	Bypass Cystic Duct to Caudate Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F180D8	Bypass Cystic Duct to Cystic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F180D9	Bypass Cystic Duct to Common Bile Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F180DB	Bypass Cystic Duct to Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F180Z3	Bypass Cystic Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0F180Z4	Bypass Cystic Duct to Stomach, Open Approach	Procedure	ICD-10-PCS
0F180Z5	Bypass Cystic Duct to Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F180Z6	Bypass Cystic Duct to Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F180Z7	Bypass Cystic Duct to Caudate Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F180Z8	Bypass Cystic Duct to Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0F180Z9	Bypass Cystic Duct to Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0F180ZB	Bypass Cystic Duct to Small Intestine, Open Approach	Procedure	ICD-10-PCS
0F184D3	Bypass Cystic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184D4	Bypass Cystic Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184D5	Bypass Cystic Duct to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184D6	Bypass Cystic Duct to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184D7	Bypass Cystic Duct to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184D8	Bypass Cystic Duct to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184D9	Bypass Cystic Duct to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184DB	Bypass Cystic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184Z3	Bypass Cystic Duct to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184Z4	Bypass Cystic Duct to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184Z5	Bypass Cystic Duct to Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184Z6	Bypass Cystic Duct to Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184Z7	Bypass Cystic Duct to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184Z8	Bypass Cystic Duct to Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184Z9	Bypass Cystic Duct to Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F184ZB	Bypass Cystic Duct to Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F190D3	Bypass Common Bile Duct to Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F190D4	Bypass Common Bile Duct to Stomach with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F190D5	Bypass Common Bile Duct to Right Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F190D6	Bypass Common Bile Duct to Left Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F190D7	Bypass Common Bile Duct to Caudate Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F190D8	Bypass Common Bile Duct to Cystic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F190D9	Bypass Common Bile Duct to Common Bile Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F190DB	Bypass Common Bile Duct to Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F190Z3	Bypass Common Bile Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0F190Z4	Bypass Common Bile Duct to Stomach, Open Approach	Procedure	ICD-10-PCS
0F190Z5	Bypass Common Bile Duct to Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F190Z6	Bypass Common Bile Duct to Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F190Z7	Bypass Common Bile Duct to Caudate Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F190Z8	Bypass Common Bile Duct to Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0F190Z9	Bypass Common Bile Duct to Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0F190ZB	Bypass Common Bile Duct to Small Intestine, Open Approach	Procedure	ICD-10-PCS
0F194D3	Bypass Common Bile Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194D4	Bypass Common Bile Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194D5	Bypass Common Bile Duct to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194D6	Bypass Common Bile Duct to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194D7	Bypass Common Bile Duct to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194D8	Bypass Common Bile Duct to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194D9	Bypass Common Bile Duct to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194DB	Bypass Common Bile Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194Z3	Bypass Common Bile Duct to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194Z4	Bypass Common Bile Duct to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194Z5	Bypass Common Bile Duct to Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194Z6	Bypass Common Bile Duct to Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194Z7	Bypass Common Bile Duct to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194Z8	Bypass Common Bile Duct to Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194Z9	Bypass Common Bile Duct to Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F194ZB	Bypass Common Bile Duct to Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1D0D3	Bypass Pancreatic Duct to Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F1D0D4	Bypass Pancreatic Duct to Stomach with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F1D0DB	Bypass Pancreatic Duct to Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F1D0DC	Bypass Pancreatic Duct to Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F1D0Z3	Bypass Pancreatic Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0F1D0Z4	Bypass Pancreatic Duct to Stomach, Open Approach	Procedure	ICD-10-PCS
0F1D0ZB	Bypass Pancreatic Duct to Small Intestine, Open Approach	Procedure	ICD-10-PCS
0F1D0ZC	Bypass Pancreatic Duct to Large Intestine, Open Approach	Procedure	ICD-10-PCS
0F1D4D3	Bypass Pancreatic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1D4D4	Bypass Pancreatic Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1D4DB	Bypass Pancreatic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1D4DC	Bypass Pancreatic Duct to Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1D4Z3	Bypass Pancreatic Duct to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1D4Z4	Bypass Pancreatic Duct to Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1D4ZB	Bypass Pancreatic Duct to Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1D4ZC	Bypass Pancreatic Duct to Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1F0D3	Bypass Accessory Pancreatic Duct to Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F1F0DB	Bypass Accessory Pancreatic Duct to Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F1F0DC	Bypass Accessory Pancreatic Duct to Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F1F0Z3	Bypass Accessory Pancreatic Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0F1F0ZB	Bypass Accessory Pancreatic Duct to Small Intestine, Open Approach	Procedure	ICD-10-PCS
0F1F0ZC	Bypass Accessory Pancreatic Duct to Large Intestine, Open Approach	Procedure	ICD-10-PCS
0F1F4D3	Bypass Accessory Pancreatic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1F4DB	Bypass Accessory Pancreatic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1F4DC	Bypass Accessory Pancreatic Duct to Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1F4Z3	Bypass Accessory Pancreatic Duct to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1F4ZB	Bypass Accessory Pancreatic Duct to Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1F4ZC	Bypass Accessory Pancreatic Duct to Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1G0D3	Bypass Pancreas to Duodenum with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F1G0DB	Bypass Pancreas to Small Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F1G0DC	Bypass Pancreas to Large Intestine with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F1G0Z3	Bypass Pancreas to Duodenum, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F1G0ZB	Bypass Pancreas to Small Intestine, Open Approach	Procedure	ICD-10-PCS
0F1G0ZC	Bypass Pancreas to Large Intestine, Open Approach	Procedure	ICD-10-PCS
0F1G4D3	Bypass Pancreas to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1G4DB	Bypass Pancreas to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1G4DC	Bypass Pancreas to Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1G4Z3	Bypass Pancreas to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1G4ZB	Bypass Pancreas to Small Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F1G4ZC	Bypass Pancreas to Large Intestine, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F500Z3	Destruction of Liver using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F500ZF	Destruction of Liver using Irreversible Electroporation, Open Approach	Procedure	ICD-10-PCS
0F500ZZ	Destruction of Liver, Open Approach	Procedure	ICD-10-PCS
0F503Z3	Destruction of Liver using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F503ZF	Destruction of Liver using Irreversible Electroporation, Percutaneous Approach	Procedure	ICD-10-PCS
0F503ZZ	Destruction of Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0F504Z3	Destruction of Liver using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F504ZF	Destruction of Liver using Irreversible Electroporation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F504ZZ	Destruction of Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F510Z3	Destruction of Right Lobe Liver using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F510ZF	Destruction of Right Lobe Liver using Irreversible Electroporation, Open Approach	Procedure	ICD-10-PCS
0F510ZZ	Destruction of Right Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0F513Z3	Destruction of Right Lobe Liver using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F513ZF	Destruction of Right Lobe Liver using Irreversible Electroporation, Percutaneous Approach	Procedure	ICD-10-PCS
0F513ZZ	Destruction of Right Lobe Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0F514Z3	Destruction of Right Lobe Liver using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F514ZF	Destruction of Right Lobe Liver using Irreversible Electroporation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F514ZZ	Destruction of Right Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F520Z3	Destruction of Left Lobe Liver using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F520ZF	Destruction of Left Lobe Liver using Irreversible Electroporation, Open Approach	Procedure	ICD-10-PCS
0F520ZZ	Destruction of Left Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0F523Z3	Destruction of Left Lobe Liver using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F523ZF	Destruction of Left Lobe Liver using Irreversible Electroporation, Percutaneous Approach	Procedure	ICD-10-PCS
0F523ZZ	Destruction of Left Lobe Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0F524Z3	Destruction of Left Lobe Liver using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F524ZF	Destruction of Left Lobe Liver using Irreversible Electroporation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F524ZZ	Destruction of Left Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F540Z3	Destruction of Gallbladder using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F540ZZ	Destruction of Gallbladder, Open Approach	Procedure	ICD-10-PCS
0F543Z3	Destruction of Gallbladder using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F543ZZ	Destruction of Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0F544Z3	Destruction of Gallbladder using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F544ZZ	Destruction of Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F548ZZ	Destruction of Gallbladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0F550Z3	Destruction of Right Hepatic Duct using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F550ZZ	Destruction of Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F553Z3	Destruction of Right Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F553ZZ	Destruction of Right Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0F554Z3	Destruction of Right Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F554ZZ	Destruction of Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F557ZZ	Destruction of Right Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F560Z3	Destruction of Left Hepatic Duct using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F560ZZ	Destruction of Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F563Z3	Destruction of Left Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F563ZZ	Destruction of Left Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0F564Z3	Destruction of Left Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F564ZZ	Destruction of Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F567ZZ	Destruction of Left Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F570Z3	Destruction of Common Hepatic Duct using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F570ZZ	Destruction of Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F573Z3	Destruction of Common Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F573ZZ	Destruction of Common Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F574Z3	Destruction of Common Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F574ZZ	Destruction of Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F577ZZ	Destruction of Common Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F580Z3	Destruction of Cystic Duct using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F580ZZ	Destruction of Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0F583Z3	Destruction of Cystic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F583ZZ	Destruction of Cystic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0F584Z3	Destruction of Cystic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F584ZZ	Destruction of Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F587ZZ	Destruction of Cystic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F590Z3	Destruction of Common Bile Duct using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F590ZZ	Destruction of Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0F593Z3	Destruction of Common Bile Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F593ZZ	Destruction of Common Bile Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0F594Z3	Destruction of Common Bile Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F594ZZ	Destruction of Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F597ZZ	Destruction of Common Bile Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F5C0Z3	Destruction of Ampulla of Vater using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F5C0ZZ	Destruction of Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0F5C3Z3	Destruction of Ampulla of Vater using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F5C3ZZ	Destruction of Ampulla of Vater, Percutaneous Approach	Procedure	ICD-10-PCS
0F5C4Z3	Destruction of Ampulla of Vater using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F5C4ZZ	Destruction of Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F5C7ZZ	Destruction of Ampulla of Vater, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F5D0Z3	Destruction of Pancreatic Duct using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F5D0ZZ	Destruction of Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0F5D3Z3	Destruction of Pancreatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F5D3ZZ	Destruction of Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0F5D4Z3	Destruction of Pancreatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F5D4ZZ	Destruction of Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F5D7ZZ	Destruction of Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F5F0Z3	Destruction of Accessory Pancreatic Duct using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F5F0ZZ	Destruction of Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0F5F3Z3	Destruction of Accessory Pancreatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F5F3ZZ	Destruction of Accessory Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0F5F4Z3	Destruction of Accessory Pancreatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F5F4ZZ	Destruction of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F5F7ZZ	Destruction of Accessory Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F5G0Z3	Destruction of Pancreas using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0F5G0ZF	Destruction of Pancreas using Irreversible Electroporation, Open Approach	Procedure	ICD-10-PCS
0F5G0ZZ	Destruction of Pancreas, Open Approach	Procedure	ICD-10-PCS
0F5G3Z3	Destruction of Pancreas using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0F5G3ZF	Destruction of Pancreas using Irreversible Electroporation, Percutaneous Approach	Procedure	ICD-10-PCS
0F5G3ZZ	Destruction of Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0F5G4Z3	Destruction of Pancreas using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F5G4ZF	Destruction of Pancreas using Irreversible Electroporation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F5G4ZZ	Destruction of Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F750DZ	Dilation of Right Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F750ZZ	Dilation of Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F754DZ	Dilation of Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F754ZZ	Dilation of Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F757ZZ	Dilation of Right Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F760DZ	Dilation of Left Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F760ZZ	Dilation of Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F764DZ	Dilation of Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F764ZZ	Dilation of Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F767ZZ	Dilation of Left Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F770DZ	Dilation of Common Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F770ZZ	Dilation of Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F774DZ	Dilation of Common Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F774ZZ	Dilation of Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F777ZZ	Dilation of Common Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F780DZ	Dilation of Cystic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F780ZZ	Dilation of Cystic Duct, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F784DZ	Dilation of Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F784ZZ	Dilation of Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F787ZZ	Dilation of Cystic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F790DZ	Dilation of Common Bile Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F790ZZ	Dilation of Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0F794DZ	Dilation of Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F794ZZ	Dilation of Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F797ZZ	Dilation of Common Bile Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F7C0DZ	Dilation of Ampulla of Vater with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F7C0ZZ	Dilation of Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0F7C3DZ	Dilation of Ampulla of Vater with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0F7C3ZZ	Dilation of Ampulla of Vater, Percutaneous Approach	Procedure	ICD-10-PCS
0F7C4DZ	Dilation of Ampulla of Vater with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F7C4ZZ	Dilation of Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F7C7DZ	Dilation of Ampulla of Vater with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F7C7ZZ	Dilation of Ampulla of Vater, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F7D0DZ	Dilation of Pancreatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F7D0ZZ	Dilation of Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0F7D3DZ	Dilation of Pancreatic Duct with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0F7D3ZZ	Dilation of Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0F7D4DZ	Dilation of Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F7D4ZZ	Dilation of Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F7D7ZZ	Dilation of Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F7F0DZ	Dilation of Accessory Pancreatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0F7F0ZZ	Dilation of Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0F7F3DZ	Dilation of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0F7F3ZZ	Dilation of Accessory Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0F7F4DZ	Dilation of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F7F4ZZ	Dilation of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F7F7DZ	Dilation of Accessory Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F7F7ZZ	Dilation of Accessory Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0F800ZZ	Division of Liver, Open Approach	Procedure	ICD-10-PCS
0F804ZZ	Division of Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F810ZZ	Division of Right Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0F814ZZ	Division of Right Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F820ZZ	Division of Left Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0F824ZZ	Division of Left Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F8G0ZZ	Division of Pancreas, Open Approach	Procedure	ICD-10-PCS
0F8G3ZZ	Division of Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0F8G4ZZ	Division of Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9000Z	Drainage of Liver with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F900ZZ	Drainage of Liver, Open Approach	Procedure	ICD-10-PCS
0F9040Z	Drainage of Liver with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F904ZZ	Drainage of Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9100Z	Drainage of Right Lobe Liver with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F910ZZ	Drainage of Right Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0F9140Z	Drainage of Right Lobe Liver with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F914ZZ	Drainage of Right Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9200Z	Drainage of Left Lobe Liver with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F920ZZ	Drainage of Left Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0F9240Z	Drainage of Left Lobe Liver with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F924ZZ	Drainage of Left Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9400Z	Drainage of Gallbladder with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F940ZZ	Drainage of Gallbladder, Open Approach	Procedure	ICD-10-PCS
0F9440Z	Drainage of Gallbladder with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F944ZZ	Drainage of Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9500Z	Drainage of Right Hepatic Duct with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F950ZZ	Drainage of Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F9540Z	Drainage of Right Hepatic Duct with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F954ZZ	Drainage of Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9600Z	Drainage of Left Hepatic Duct with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F960ZZ	Drainage of Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F9640Z	Drainage of Left Hepatic Duct with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F964ZZ	Drainage of Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9700Z	Drainage of Common Hepatic Duct with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F970ZZ	Drainage of Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0F9740Z	Drainage of Common Hepatic Duct with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F974ZZ	Drainage of Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9800Z	Drainage of Cystic Duct with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F980ZZ	Drainage of Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0F9840Z	Drainage of Cystic Duct with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F984ZZ	Drainage of Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9900Z	Drainage of Common Bile Duct with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F990ZZ	Drainage of Common Bile Duct, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0F9940Z	Drainage of Common Bile Duct with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F994ZZ	Drainage of Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9C00Z	Drainage of Ampulla of Vater with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F9C0ZZ	Drainage of Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0F9C40Z	Drainage of Ampulla of Vater with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9C4ZZ	Drainage of Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9D00Z	Drainage of Pancreatic Duct with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F9D0ZZ	Drainage of Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0F9D40Z	Drainage of Pancreatic Duct with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9D4ZZ	Drainage of Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9F00Z	Drainage of Accessory Pancreatic Duct with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F9F0ZZ	Drainage of Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0F9F40Z	Drainage of Accessory Pancreatic Duct with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9F4ZZ	Drainage of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9G00Z	Drainage of Pancreas with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0F9G0ZZ	Drainage of Pancreas, Open Approach	Procedure	ICD-10-PCS
0F9G40Z	Drainage of Pancreas with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F9G4ZZ	Drainage of Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FB00ZZ	Excision of Liver, Open Approach	Procedure	ICD-10-PCS
0FB03ZZ	Excision of Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FB04ZG	Excision of liver, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0FB04ZZ	Excision of Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FB10ZZ	Excision of Right Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FB13ZZ	Excision of Right Lobe Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FB14ZG	Excision of right lobe liver, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0FB14ZZ	Excision of Right Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FB20ZZ	Excision of Left Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FB23ZZ	Excision of Left Lobe Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FB24ZG	Excision of left lobe liver, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0FB24ZZ	Excision of Left Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FB40ZZ	Excision of Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FB43ZZ	Excision of Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FB44ZZ	Excision of Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FB48ZZ	Excision of Gallbladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FB50ZZ	Excision of Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FB53ZZ	Excision of Right Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FB54ZZ	Excision of Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FB57ZZ	Excision of Right Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FB60ZZ	Excision of Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FB63ZZ	Excision of Left Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FB64ZZ	Excision of Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FB67ZZ	Excision of Left Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FB70ZZ	Excision of Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FB73ZZ	Excision of Common Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FB74ZZ	Excision of Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FB77ZZ	Excision of Common Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FB80ZZ	Excision of Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0FB83ZZ	Excision of Cystic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FB84ZZ	Excision of Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FB87ZZ	Excision of Cystic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FB90ZZ	Excision of Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0FB93ZZ	Excision of Common Bile Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FB94ZZ	Excision of Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FB97ZZ	Excision of Common Bile Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FBC0ZZ	Excision of Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0FBC3ZZ	Excision of Ampulla of Vater, Percutaneous Approach	Procedure	ICD-10-PCS
0FBC4ZZ	Excision of Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FBC7ZZ	Excision of Ampulla of Vater, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FBD0ZZ	Excision of Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FBD3ZZ	Excision of Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FBD4ZZ	Excision of Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FBD7ZZ	Excision of Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FBF0ZZ	Excision of Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FBF3ZZ	Excision of Accessory Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FBF4ZZ	Excision of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FBF7ZZ	Excision of Accessory Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FBG0ZZ	Excision of Pancreas, Open Approach	Procedure	ICD-10-PCS
0FBG3ZZ	Excision of Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FBG4ZG	Excision of pancreas, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0FBG4ZZ	Excision of Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FBG8ZZ	Excision of Pancreas, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FC00ZZ	Extirpation of Matter from Liver, Open Approach	Procedure	ICD-10-PCS
0FC03ZZ	Extirpation of Matter from Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FC04ZZ	Extirpation of Matter from Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FC10ZZ	Extirpation of Matter from Right Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FC13ZZ	Extirpation of Matter from Right Lobe Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FC14ZZ	Extirpation of Matter from Right Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FC20ZZ	Extirpation of Matter from Left Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FC23ZZ	Extirpation of Matter from Left Lobe Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FC24ZZ	Extirpation of Matter from Left Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FC40ZZ	Extirpation of Matter from Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FC43ZZ	Extirpation of Matter from Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FC44ZZ	Extirpation of Matter from Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FC48ZZ	Extirpation of Matter from Gallbladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FC50ZZ	Extirpation of Matter from Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FC54ZZ	Extirpation of Matter from Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FC60ZZ	Extirpation of Matter from Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FC64ZZ	Extirpation of Matter from Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FC70ZZ	Extirpation of Matter from Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FC74ZZ	Extirpation of Matter from Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FC80ZZ	Extirpation of Matter from Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0FC84ZZ	Extirpation of Matter from Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FC90ZZ	Extirpation of Matter from Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0FC94ZZ	Extirpation of Matter from Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FCC0ZZ	Extirpation of Matter from Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0FCC3ZZ	Extirpation of Matter from Ampulla of Vater, Percutaneous Approach	Procedure	ICD-10-PCS
0FCC4ZZ	Extirpation of Matter from Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FCC7ZZ	Extirpation of Matter from Ampulla of Vater, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FCD0ZZ	Extirpation of Matter from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FCD4ZZ	Extirpation of Matter from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FCD7ZZ	Extirpation of Matter from Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FCF0ZZ	Extirpation of Matter from Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FCF4ZZ	Extirpation of Matter from Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FCF7ZZ	Extirpation of Matter from Accessory Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FCG0ZZ	Extirpation of Matter from Pancreas, Open Approach	Procedure	ICD-10-PCS
0FCG3ZZ	Extirpation of Matter from Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FCG4ZZ	Extirpation of Matter from Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FF40ZZ	Fragmentation in Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FF43ZZ	Fragmentation in Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FF44ZZ	Fragmentation in Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FF47ZZ	Fragmentation in Gallbladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FF50ZZ	Fragmentation in Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FF53ZZ	Fragmentation in Right Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FF54ZZ	Fragmentation in Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FF57ZZ	Fragmentation in Right Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FF60ZZ	Fragmentation in Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FF63ZZ	Fragmentation in Left Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FF64ZZ	Fragmentation in Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FF67ZZ	Fragmentation in Left Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FF70ZZ	Fragmentation in Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FF73ZZ	Fragmentation in Common Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FF74ZZ	Fragmentation in Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FF77ZZ	Fragmentation in Common Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FF80ZZ	Fragmentation in Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0FF83ZZ	Fragmentation in Cystic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FF84ZZ	Fragmentation in Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FF87ZZ	Fragmentation in Cystic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FF90ZZ	Fragmentation in Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0FF93ZZ	Fragmentation in Common Bile Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FF94ZZ	Fragmentation in Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FF97ZZ	Fragmentation in Common Bile Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FFC0ZZ	Fragmentation in Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0FFC3ZZ	Fragmentation in Ampulla of Vater, Percutaneous Approach	Procedure	ICD-10-PCS
0FFC4ZZ	Fragmentation in Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FFC7ZZ	Fragmentation in Ampulla of Vater, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FFD0ZZ	Fragmentation in Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FFD3ZZ	Fragmentation in Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FFD4ZZ	Fragmentation in Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FFD7ZZ	Fragmentation in Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FFF0ZZ	Fragmentation in Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FFF3ZZ	Fragmentation in Accessory Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FFF4ZZ	Fragmentation in Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FFF7ZZ	Fragmentation in Accessory Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FH001Z	Insertion of Radioactive Element into Liver, Open Approach	Procedure	ICD-10-PCS
0FH003Z	Insertion of Infusion Device into Liver, Open Approach	Procedure	ICD-10-PCS
0FH00YZ	Insertion of Other Device into Liver, Open Approach	Procedure	ICD-10-PCS
0FH041Z	Insertion of Radioactive Element into Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FH043Z	Insertion of Infusion Device into Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FH04YZ	Insertion of Other Device into Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FH103Z	Insertion of Infusion Device into Right Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FH143Z	Insertion of Infusion Device into Right Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FH203Z	Insertion of Infusion Device into Left Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FH243Z	Insertion of Infusion Device into Left Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FH401Z	Insertion of Radioactive Element into Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FH403Z	Insertion of Infusion Device into Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FH40YZ	Insertion of Other Device into Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FH441Z	Insertion of Radioactive Element into Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FH443Z	Insertion of Infusion Device into Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FH44YZ	Insertion of Other Device into Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHB01Z	Insertion of Radioactive Element into Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FHB03Z	Insertion of Infusion Device into Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FHB0DZ	Insertion of Intraluminal Device into Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FHB0YZ	Insertion of Other Device into Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FHB3DZ	Insertion of Intraluminal Device into Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FHB41Z	Insertion of Radioactive Element into Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHB43Z	Insertion of Infusion Device into Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHB4DZ	Insertion of Intraluminal Device into Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHB4YZ	Insertion of Other Device into Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHD01Z	Insertion of Radioactive Element into Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FHD03Z	Insertion of Infusion Device into Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FHD0DZ	Insertion of Intraluminal Device into Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FHD0YZ	Insertion of Other Device into Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FHD3DZ	Insertion of Intraluminal Device into Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FHD41Z	Insertion of Radioactive Element into Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHD43Z	Insertion of Infusion Device into Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHD4DZ	Insertion of Intraluminal Device into Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHD4YZ	Insertion of Other Device into Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHG01Z	Insertion of Radioactive Element into Pancreas, Open Approach	Procedure	ICD-10-PCS
0FHG03Z	Insertion of Infusion Device into Pancreas, Open Approach	Procedure	ICD-10-PCS
0FHG0YZ	Insertion of Other Device into Pancreas, Open Approach	Procedure	ICD-10-PCS
0FHG41Z	Insertion of Radioactive Element into Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHG43Z	Insertion of Infusion Device into Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FHG4YZ	Insertion of Other Device into Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL50CZ	Occlusion of Right Hepatic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FL50DZ	Occlusion of Right Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FL50ZZ	Occlusion of Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FL54CZ	Occlusion of Right Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL54DZ	Occlusion of Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL54ZZ	Occlusion of Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL60CZ	Occlusion of Left Hepatic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FL60DZ	Occlusion of Left Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FL60ZZ	Occlusion of Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FL64CZ	Occlusion of Left Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL64DZ	Occlusion of Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FL64ZZ	Occlusion of Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL70CZ	Occlusion of Common Hepatic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FL70DZ	Occlusion of Common Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FL70ZZ	Occlusion of Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FL74CZ	Occlusion of Common Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL74DZ	Occlusion of Common Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL74ZZ	Occlusion of Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL80CZ	Occlusion of Cystic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FL80DZ	Occlusion of Cystic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FL80ZZ	Occlusion of Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0FL84CZ	Occlusion of Cystic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL84DZ	Occlusion of Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL84ZZ	Occlusion of Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL90CZ	Occlusion of Common Bile Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FL90DZ	Occlusion of Common Bile Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FL90ZZ	Occlusion of Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0FL94CZ	Occlusion of Common Bile Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL94DZ	Occlusion of Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FL94ZZ	Occlusion of Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FLC0CZ	Occlusion of Ampulla of Vater with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FLC0DZ	Occlusion of Ampulla of Vater with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FLC0ZZ	Occlusion of Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0FLC3CZ	Occlusion of Ampulla of Vater with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FLC3DZ	Occlusion of Ampulla of Vater with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FLC3ZZ	Occlusion of Ampulla of Vater, Percutaneous Approach	Procedure	ICD-10-PCS
0FLC4CZ	Occlusion of Ampulla of Vater with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FLC4DZ	Occlusion of Ampulla of Vater with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FLC4ZZ	Occlusion of Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FLC7DZ	Occlusion of Ampulla of Vater with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FLC7ZZ	Occlusion of Ampulla of Vater, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FLC8DZ	Occlusion of Ampulla of Vater with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FLC8ZZ	Occlusion of Ampulla of Vater, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FLD0CZ	Occlusion of Pancreatic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FLD0DZ	Occlusion of Pancreatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FLD0ZZ	Occlusion of Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FLD3CZ	Occlusion of Pancreatic Duct with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FLD3DZ	Occlusion of Pancreatic Duct with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FLD3ZZ	Occlusion of Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FLD4CZ	Occlusion of Pancreatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FLD4DZ	Occlusion of Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FLD4ZZ	Occlusion of Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FLD7DZ	Occlusion of Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FLD7ZZ	Occlusion of Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FLD8DZ	Occlusion of Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FLD8ZZ	Occlusion of Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FLF0CZ	Occlusion of Accessory Pancreatic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FLF0DZ	Occlusion of Accessory Pancreatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FLF0ZZ	Occlusion of Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FLF3CZ	Occlusion of Accessory Pancreatic Duct with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FLF3DZ	Occlusion of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FLF3ZZ	Occlusion of Accessory Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FLF4CZ	Occlusion of Accessory Pancreatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FLF4DZ	Occlusion of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FLF4ZZ	Occlusion of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FLF7DZ	Occlusion of Accessory Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FLF7ZZ	Occlusion of Accessory Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FLF8DZ	Occlusion of Accessory Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FLF8ZZ	Occlusion of Accessory Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FM00ZZ	Reattachment of Liver, Open Approach	Procedure	ICD-10-PCS
0FM04ZZ	Reattachment of Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FM10ZZ	Reattachment of Right Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FM14ZZ	Reattachment of Right Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FM20ZZ	Reattachment of Left Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FM24ZZ	Reattachment of Left Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FM40ZZ	Reattachment of Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FM44ZZ	Reattachment of Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FM50ZZ	Reattachment of Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FM54ZZ	Reattachment of Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FM60ZZ	Reattachment of Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FM64ZZ	Reattachment of Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FM70ZZ	Reattachment of Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FM74ZZ	Reattachment of Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FM80ZZ	Reattachment of Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0FM84ZZ	Reattachment of Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FM90ZZ	Reattachment of Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0FM94ZZ	Reattachment of Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FMC0ZZ	Reattachment of Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0FMC4ZZ	Reattachment of Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FMD0ZZ	Reattachment of Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FMD4ZZ	Reattachment of Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FMF0ZZ	Reattachment of Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FMF4ZZ	Reattachment of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FMG0ZZ	Reattachment of Pancreas, Open Approach	Procedure	ICD-10-PCS
0FMG4ZZ	Reattachment of Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FN00ZZ	Release Liver, Open Approach	Procedure	ICD-10-PCS
0FN03ZZ	Release Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FN04ZZ	Release Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FN10ZZ	Release Right Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FN13ZZ	Release Right Lobe Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FN14ZZ	Release Right Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FN20ZZ	Release Left Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FN23ZZ	Release Left Lobe Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FN24ZZ	Release Left Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FN40ZZ	Release Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FN43ZZ	Release Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FN44ZZ	Release Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FN48ZZ	Release Gallbladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FN50ZZ	Release Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FN53ZZ	Release Right Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FN54ZZ	Release Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FN57ZZ	Release Right Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FN58ZZ	Release Right Hepatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FN60ZZ	Release Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FN63ZZ	Release Left Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FN64ZZ	Release Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FN67ZZ	Release Left Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FN68ZZ	Release Left Hepatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FN70ZZ	Release Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FN73ZZ	Release Common Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FN74ZZ	Release Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FN77ZZ	Release Common Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FN78ZZ	Release Common Hepatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FN80ZZ	Release Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0FN83ZZ	Release Cystic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FN84ZZ	Release Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FN87ZZ	Release Cystic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FN88ZZ	Release Cystic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FN90ZZ	Release Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0FN93ZZ	Release Common Bile Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FN94ZZ	Release Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FN97ZZ	Release Common Bile Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FN98ZZ	Release Common Bile Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FNC0ZZ	Release Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0FNC3ZZ	Release Ampulla of Vater, Percutaneous Approach	Procedure	ICD-10-PCS
0FNC4ZZ	Release Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FNC7ZZ	Release Ampulla of Vater, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FNC8ZZ	Release Ampulla of Vater, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FND0ZZ	Release Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FND3ZZ	Release Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FND4ZZ	Release Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FND7ZZ	Release Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FND8ZZ	Release Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FNF0ZZ	Release Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FNF3ZZ	Release Accessory Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FNF4ZZ	Release Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FNF7ZZ	Release Accessory Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FNF8ZZ	Release Accessory Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FNG0ZZ	Release Pancreas, Open Approach	Procedure	ICD-10-PCS
0FNG3ZZ	Release Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FNG4ZZ	Release Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FNG8ZZ	Release Pancreas, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FP000Z	Removal of Drainage Device from Liver, Open Approach	Procedure	ICD-10-PCS
0FP002Z	Removal of Monitoring Device from Liver, Open Approach	Procedure	ICD-10-PCS
0FP003Z	Removal of Infusion Device from Liver, Open Approach	Procedure	ICD-10-PCS
0FP00YZ	Removal of Other Device from Liver, Open Approach	Procedure	ICD-10-PCS
0FP030Z	Removal of Drainage Device from Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FP032Z	Removal of Monitoring Device from Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FP033Z	Removal of Infusion Device from Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FP03YZ	Removal of Other Device from Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FP040Z	Removal of Drainage Device from Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FP042Z	Removal of Monitoring Device from Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FP043Z	Removal of Infusion Device from Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FP04YZ	Removal of Other Device from Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FP400Z	Removal of Drainage Device from Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FP402Z	Removal of Monitoring Device from Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FP403Z	Removal of Infusion Device from Gallbladder, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FP40DZ	Removal of Intraluminal Device from Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FP40YZ	Removal of Other Device from Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FP430Z	Removal of Drainage Device from Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FP432Z	Removal of Monitoring Device from Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FP433Z	Removal of Infusion Device from Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FP43DZ	Removal of Intraluminal Device from Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FP43YZ	Removal of Other Device from Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FP440Z	Removal of Drainage Device from Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FP442Z	Removal of Monitoring Device from Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FP443Z	Removal of Infusion Device from Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FP44DZ	Removal of Intraluminal Device from Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FP44YZ	Removal of Other Device from Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPB00Z	Removal of Drainage Device from Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FPB01Z	Removal of Radioactive Element from Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FPB02Z	Removal of Monitoring Device from Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FPB03Z	Removal of Infusion Device from Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FPB07Z	Removal of Autologous Tissue Substitute from Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FPB0CZ	Removal of Extraluminal Device from Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FPB0DZ	Removal of Intraluminal Device from Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FPB0JZ	Removal of Synthetic Substitute from Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FPB0KZ	Removal of Nonautologous Tissue Substitute from Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FPB0YZ	Removal of Other Device from Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FPB30Z	Removal of Drainage Device from Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPB32Z	Removal of Monitoring Device from Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPB33Z	Removal of Infusion Device from Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPB37Z	Removal of Autologous Tissue Substitute from Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPB3CZ	Removal of Extraluminal Device from Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPB3DZ	Removal of Intraluminal Device from Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPB3JZ	Removal of Synthetic Substitute from Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPB3KZ	Removal of Nonautologous Tissue Substitute from Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPB3YZ	Removal of Other Device from Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPB40Z	Removal of Drainage Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FPB41Z	Removal of Radioactive Element from Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPB42Z	Removal of Monitoring Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPB43Z	Removal of Infusion Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPB47Z	Removal of Autologous Tissue Substitute from Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPB4CZ	Removal of Extraluminal Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPB4DZ	Removal of Intraluminal Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPB4JZ	Removal of Synthetic Substitute from Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPB4KZ	Removal of Nonautologous Tissue Substitute from Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPB4YZ	Removal of Other Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPB77Z	Removal of Autologous Tissue Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FPB7CZ	Removal of Extraluminal Device from Hepatobiliary Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FPB7JZ	Removal of Synthetic Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FPB7KZ	Removal of Nonautologous Tissue Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FPB87Z	Removal of Autologous Tissue Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FPB8CZ	Removal of Extraluminal Device from Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FPB8JZ	Removal of Synthetic Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FPB8KZ	Removal of Nonautologous Tissue Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FPD00Z	Removal of Drainage Device from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FPD01Z	Removal of Radioactive Element from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FPD02Z	Removal of Monitoring Device from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FPD03Z	Removal of Infusion Device from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FPD07Z	Removal of Autologous Tissue Substitute from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FPD0CZ	Removal of Extraluminal Device from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FPD0DZ	Removal of Intraluminal Device from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FPD0JZ	Removal of Synthetic Substitute from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FPD0KZ	Removal of Nonautologous Tissue Substitute from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FPD0YZ	Removal of Other Device from Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FPD30Z	Removal of Drainage Device from Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPD32Z	Removal of Monitoring Device from Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPD33Z	Removal of Infusion Device from Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPD37Z	Removal of Autologous Tissue Substitute from Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPD3CZ	Removal of Extraluminal Device from Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPD3DZ	Removal of Intraluminal Device from Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPD3JZ	Removal of Synthetic Substitute from Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPD3KZ	Removal of Nonautologous Tissue Substitute from Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPD3YZ	Removal of Other Device from Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FPD40Z	Removal of Drainage Device from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPD41Z	Removal of Radioactive Element from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPD42Z	Removal of Monitoring Device from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPD43Z	Removal of Infusion Device from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPD47Z	Removal of Autologous Tissue Substitute from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPD4CZ	Removal of Extraluminal Device from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPD4DZ	Removal of Intraluminal Device from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPD4JZ	Removal of Synthetic Substitute from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPD4KZ	Removal of Nonautologous Tissue Substitute from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPD4YZ	Removal of Other Device from Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPD77Z	Removal of Autologous Tissue Substitute from Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FPD7CZ	Removal of Extraluminal Device from Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FPD7JZ	Removal of Synthetic Substitute from Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FPD7KZ	Removal of Nonautologous Tissue Substitute from Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FPD87Z	Removal of Autologous Tissue Substitute from Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FPD8CZ	Removal of Extraluminal Device from Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FPD8JZ	Removal of Synthetic Substitute from Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FPD8KZ	Removal of Nonautologous Tissue Substitute from Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FPG00Z	Removal of Drainage Device from Pancreas, Open Approach	Procedure	ICD-10-PCS
0FPG02Z	Removal of Monitoring Device from Pancreas, Open Approach	Procedure	ICD-10-PCS
0FPG03Z	Removal of Infusion Device from Pancreas, Open Approach	Procedure	ICD-10-PCS
0FPG0DZ	Removal of Intraluminal Device from Pancreas, Open Approach	Procedure	ICD-10-PCS
0FPG0YZ	Removal of Other Device from Pancreas, Open Approach	Procedure	ICD-10-PCS
0FPG32Z	Removal of Monitoring Device from Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FPG33Z	Removal of Infusion Device from Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FPG3DZ	Removal of Intraluminal Device from Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FPG3YZ	Removal of Other Device from Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FPG40Z	Removal of Drainage Device from Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPG42Z	Removal of Monitoring Device from Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPG43Z	Removal of Infusion Device from Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPG4DZ	Removal of Intraluminal Device from Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPG4YZ	Removal of Other Device from Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FPGXDZ	Removal of Intraluminal Device from Pancreas, External Approach	Procedure	ICD-10-PCS
0FQ00ZZ	Repair Liver, Open Approach	Procedure	ICD-10-PCS
0FQ03ZZ	Repair Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FQ04ZZ	Repair Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQ10ZZ	Repair Right Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FQ13ZZ	Repair Right Lobe Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FQ14ZZ	Repair Right Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQ20ZZ	Repair Left Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FQ23ZZ	Repair Left Lobe Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FQ24ZZ	Repair Left Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQ40ZZ	Repair Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FQ43ZZ	Repair Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FQ44ZZ	Repair Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQ48ZZ	Repair Gallbladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FQ50ZZ	Repair Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FQ53ZZ	Repair Right Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FQ54ZZ	Repair Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQ57ZZ	Repair Right Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FQ58ZZ	Repair Right Hepatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FQ60ZZ	Repair Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FQ63ZZ	Repair Left Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FQ64ZZ	Repair Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQ67ZZ	Repair Left Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FQ68ZZ	Repair Left Hepatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FQ70ZZ	Repair Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FQ73ZZ	Repair Common Hepatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FQ74ZZ	Repair Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FQ77ZZ	Repair Common Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FQ78ZZ	Repair Common Hepatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FQ80ZZ	Repair Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0FQ83ZZ	Repair Cystic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FQ84ZZ	Repair Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQ87ZZ	Repair Cystic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FQ88ZZ	Repair Cystic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FQ90ZZ	Repair Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0FQ93ZZ	Repair Common Bile Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FQ94ZZ	Repair Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQ97ZZ	Repair Common Bile Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FQ98ZZ	Repair Common Bile Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FQC0ZZ	Repair Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0FQC3ZZ	Repair Ampulla of Vater, Percutaneous Approach	Procedure	ICD-10-PCS
0FQC4ZZ	Repair Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQC7ZZ	Repair Ampulla of Vater, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FQC8ZZ	Repair Ampulla of Vater, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FQD0ZZ	Repair Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FQD3ZZ	Repair Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FQD4ZZ	Repair Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQD7ZZ	Repair Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FQD8ZZ	Repair Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FQF0ZZ	Repair Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FQF3ZZ	Repair Accessory Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FQF4ZZ	Repair Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQF7ZZ	Repair Accessory Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FQF8ZZ	Repair Accessory Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FQG0ZZ	Repair Pancreas, Open Approach	Procedure	ICD-10-PCS
0FQG3ZZ	Repair Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FQG4ZZ	Repair Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FQG8ZZ	Repair Pancreas, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR507Z	Replacement of Right Hepatic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FR50JZ	Replacement of Right Hepatic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FR50KZ	Replacement of Right Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FR547Z	Replacement of Right Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR54JZ	Replacement of Right Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR54KZ	Replacement of Right Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR587Z	Replacement of Right Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FR58JZ	Replacement of Right Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR58KZ	Replacement of Right Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR607Z	Replacement of Left Hepatic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FR60JZ	Replacement of Left Hepatic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FR60KZ	Replacement of Left Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FR647Z	Replacement of Left Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR64JZ	Replacement of Left Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR64KZ	Replacement of Left Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR687Z	Replacement of Left Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR68JZ	Replacement of Left Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR68KZ	Replacement of Left Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR707Z	Replacement of Common Hepatic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FR70JZ	Replacement of Common Hepatic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FR70KZ	Replacement of Common Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FR747Z	Replacement of Common Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR74JZ	Replacement of Common Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR74KZ	Replacement of Common Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR787Z	Replacement of Common Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR78JZ	Replacement of Common Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR78KZ	Replacement of Common Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR807Z	Replacement of Cystic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FR80JZ	Replacement of Cystic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FR80KZ	Replacement of Cystic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FR847Z	Replacement of Cystic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FR84JZ	Replacement of Cystic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR84KZ	Replacement of Cystic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR887Z	Replacement of Cystic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR88JZ	Replacement of Cystic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR88KZ	Replacement of Cystic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR907Z	Replacement of Common Bile Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FR90JZ	Replacement of Common Bile Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FR90KZ	Replacement of Common Bile Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FR947Z	Replacement of Common Bile Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR94JZ	Replacement of Common Bile Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR94KZ	Replacement of Common Bile Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FR987Z	Replacement of Common Bile Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR98JZ	Replacement of Common Bile Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FR98KZ	Replacement of Common Bile Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FRC07Z	Replacement of Ampulla of Vater with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FRC0JZ	Replacement of Ampulla of Vater with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FRC0KZ	Replacement of Ampulla of Vater with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FRC47Z	Replacement of Ampulla of Vater with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FRC4JZ	Replacement of Ampulla of Vater with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FRC4KZ	Replacement of Ampulla of Vater with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FRC87Z	Replacement of Ampulla of Vater with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FRC8JZ	Replacement of Ampulla of Vater with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FRC8KZ	Replacement of Ampulla of Vater with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FRD07Z	Replacement of Pancreatic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FRD0JZ	Replacement of Pancreatic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FRD0KZ	Replacement of Pancreatic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FRD47Z	Replacement of Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FRD4JZ	Replacement of Pancreatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FRD4KZ	Replacement of Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FRD87Z	Replacement of Pancreatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FRD8JZ	Replacement of Pancreatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FRD8KZ	Replacement of Pancreatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FRF07Z	Replacement of Accessory Pancreatic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FRF0JZ	Replacement of Accessory Pancreatic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FRF0KZ	Replacement of Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FRF47Z	Replacement of Accessory Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FRF4JZ	Replacement of Accessory Pancreatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FRF4KZ	Replacement of Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FRF87Z	Replacement of Accessory Pancreatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FRF8JZ	Replacement of Accessory Pancreatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FRF8KZ	Replacement of Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FS00ZZ	Reposition Liver, Open Approach	Procedure	ICD-10-PCS
0FS04ZZ	Reposition Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FS40ZZ	Reposition Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FS44ZZ	Reposition Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FS50ZZ	Reposition Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FS54ZZ	Reposition Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FS60ZZ	Reposition Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FS64ZZ	Reposition Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FS70ZZ	Reposition Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FS74ZZ	Reposition Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FS80ZZ	Reposition Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0FS84ZZ	Reposition Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FS90ZZ	Reposition Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0FS94ZZ	Reposition Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FSC0ZZ	Reposition Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0FSC4ZZ	Reposition Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FSD0ZZ	Reposition Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FSD4ZZ	Reposition Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FSF0ZZ	Reposition Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FSF4ZZ	Reposition Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FSG0ZZ	Reposition Pancreas, Open Approach	Procedure	ICD-10-PCS
0FSG4ZZ	Reposition Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FT00ZZ	Resection of Liver, Open Approach	Procedure	ICD-10-PCS
0FT04ZG	Resection of liver, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0FT04ZZ	Resection of Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FT10ZZ	Resection of Right Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FT14ZG	Resection of right lobe liver, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0FT14ZZ	Resection of Right Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FT20ZZ	Resection of Left Lobe Liver, Open Approach	Procedure	ICD-10-PCS
0FT24ZG	Resection of left lobe liver, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0FT24ZZ	Resection of Left Lobe Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FT40ZZ	Resection of Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FT44ZG	Resection of gallbladder, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0FT44ZZ	Resection of Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FT50ZZ	Resection of Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FT54ZZ	Resection of Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FT57ZZ	Resection of Right Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FT58ZZ	Resection of Right Hepatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FT60ZZ	Resection of Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FT64ZZ	Resection of Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FT67ZZ	Resection of Left Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FT68ZZ	Resection of Left Hepatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FT70ZZ	Resection of Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FT74ZZ	Resection of Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FT77ZZ	Resection of Common Hepatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FT78ZZ	Resection of Common Hepatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FT80ZZ	Resection of Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0FT84ZZ	Resection of Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FT87ZZ	Resection of Cystic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FT88ZZ	Resection of Cystic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FT90ZZ	Resection of Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0FT94ZZ	Resection of Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FT97ZZ	Resection of Common Bile Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FT98ZZ	Resection of Common Bile Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FTC0ZZ	Resection of Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0FTC4ZZ	Resection of Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FTC7ZZ	Resection of Ampulla of Vater, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FTC8ZZ	Resection of Ampulla of Vater, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FTD0ZZ	Resection of Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FTD4ZZ	Resection of Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FTD7ZZ	Resection of Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FTF0ZZ	Resection of Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FTF4ZZ	Resection of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FTF7ZZ	Resection of Accessory Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FTG0ZZ	Resection of Pancreas, Open Approach	Procedure	ICD-10-PCS
0FTG4ZG	Resection of pancreas, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0FTG4ZZ	Resection of Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU507Z	Supplement Right Hepatic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FU50JZ	Supplement Right Hepatic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FU50KZ	Supplement Right Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FU537Z	Supplement Right Hepatic Duct with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU53JZ	Supplement Right Hepatic Duct with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU53KZ	Supplement Right Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU547Z	Supplement Right Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU54JZ	Supplement Right Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU54KZ	Supplement Right Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU587Z	Supplement Right Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU58JZ	Supplement Right Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU58KZ	Supplement Right Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU607Z	Supplement Left Hepatic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FU60JZ	Supplement Left Hepatic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FU60KZ	Supplement Left Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FU637Z	Supplement Left Hepatic Duct with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU63JZ	Supplement Left Hepatic Duct with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FU63KZ	Supplement Left Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU647Z	Supplement Left Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU64JZ	Supplement Left Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU64KZ	Supplement Left Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU687Z	Supplement Left Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU68JZ	Supplement Left Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU68KZ	Supplement Left Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU707Z	Supplement Common Hepatic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FU70JZ	Supplement Common Hepatic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FU70KZ	Supplement Common Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FU737Z	Supplement Common Hepatic Duct with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU73JZ	Supplement Common Hepatic Duct with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU73KZ	Supplement Common Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU747Z	Supplement Common Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU74JZ	Supplement Common Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU74KZ	Supplement Common Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU787Z	Supplement Common Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU78JZ	Supplement Common Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU78KZ	Supplement Common Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU807Z	Supplement Cystic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FU80JZ	Supplement Cystic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FU80KZ	Supplement Cystic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FU837Z	Supplement Cystic Duct with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU83JZ	Supplement Cystic Duct with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU83KZ	Supplement Cystic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FU847Z	Supplement Cystic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU84JZ	Supplement Cystic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU84KZ	Supplement Cystic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU887Z	Supplement Cystic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU88JZ	Supplement Cystic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU88KZ	Supplement Cystic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU907Z	Supplement Common Bile Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FU90JZ	Supplement Common Bile Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FU90KZ	Supplement Common Bile Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FU937Z	Supplement Common Bile Duct with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU93JZ	Supplement Common Bile Duct with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU93KZ	Supplement Common Bile Duct with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FU947Z	Supplement Common Bile Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU94JZ	Supplement Common Bile Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU94KZ	Supplement Common Bile Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FU987Z	Supplement Common Bile Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU98JZ	Supplement Common Bile Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FU98KZ	Supplement Common Bile Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FUC07Z	Supplement Ampulla of Vater with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FUC0JZ	Supplement Ampulla of Vater with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FUC0KZ	Supplement Ampulla of Vater with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FUC37Z	Supplement Ampulla of Vater with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FUC3JZ	Supplement Ampulla of Vater with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FUC3KZ	Supplement Ampulla of Vater with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FUC47Z	Supplement Ampulla of Vater with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FUC4JZ	Supplement Ampulla of Vater with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FUC4KZ	Supplement Ampulla of Vater with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FUC87Z	Supplement Ampulla of Vater with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FUC8JZ	Supplement Ampulla of Vater with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FUC8KZ	Supplement Ampulla of Vater with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FUD07Z	Supplement Pancreatic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FUD0JZ	Supplement Pancreatic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FUD0KZ	Supplement Pancreatic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FUD37Z	Supplement Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FUD3JZ	Supplement Pancreatic Duct with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FUD3KZ	Supplement Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FUD47Z	Supplement Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FUD4JZ	Supplement Pancreatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FUD4KZ	Supplement Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FUD87Z	Supplement Pancreatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FUD8JZ	Supplement Pancreatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FUD8KZ	Supplement Pancreatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FUF07Z	Supplement Accessory Pancreatic Duct with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FUF0JZ	Supplement Accessory Pancreatic Duct with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0FUF0KZ	Supplement Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0FUF37Z	Supplement Accessory Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FUF3JZ	Supplement Accessory Pancreatic Duct with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FUF3KZ	Supplement Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0FUF47Z	Supplement Accessory Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FUF4JZ	Supplement Accessory Pancreatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FUF4KZ	Supplement Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FUF87Z	Supplement Accessory Pancreatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FUF8JZ	Supplement Accessory Pancreatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FUF8KZ	Supplement Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FV50CZ	Restriction of Right Hepatic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FV50DZ	Restriction of Right Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FV50ZZ	Restriction of Right Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FV54CZ	Restriction of Right Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV54DZ	Restriction of Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV54ZZ	Restriction of Right Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV60CZ	Restriction of Left Hepatic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FV60DZ	Restriction of Left Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FV60ZZ	Restriction of Left Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FV64CZ	Restriction of Left Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV64DZ	Restriction of Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV64ZZ	Restriction of Left Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV70CZ	Restriction of Common Hepatic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FV70DZ	Restriction of Common Hepatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FV70ZZ	Restriction of Common Hepatic Duct, Open Approach	Procedure	ICD-10-PCS
0FV74CZ	Restriction of Common Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV74DZ	Restriction of Common Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV74ZZ	Restriction of Common Hepatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV80CZ	Restriction of Cystic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FV80DZ	Restriction of Cystic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FV80ZZ	Restriction of Cystic Duct, Open Approach	Procedure	ICD-10-PCS
0FV84CZ	Restriction of Cystic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV84DZ	Restriction of Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FV84ZZ	Restriction of Cystic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV90CZ	Restriction of Common Bile Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FV90DZ	Restriction of Common Bile Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FV90ZZ	Restriction of Common Bile Duct, Open Approach	Procedure	ICD-10-PCS
0FV94CZ	Restriction of Common Bile Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV94DZ	Restriction of Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FV94ZZ	Restriction of Common Bile Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FVC0CZ	Restriction of Ampulla of Vater with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FVC0DZ	Restriction of Ampulla of Vater with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FVC0ZZ	Restriction of Ampulla of Vater, Open Approach	Procedure	ICD-10-PCS
0FVC3CZ	Restriction of Ampulla of Vater with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FVC3DZ	Restriction of Ampulla of Vater with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FVC3ZZ	Restriction of Ampulla of Vater, Percutaneous Approach	Procedure	ICD-10-PCS
0FVC4CZ	Restriction of Ampulla of Vater with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FVC4DZ	Restriction of Ampulla of Vater with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FVC4ZZ	Restriction of Ampulla of Vater, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FVC7DZ	Restriction of Ampulla of Vater with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FVC7ZZ	Restriction of Ampulla of Vater, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FVC8DZ	Restriction of Ampulla of Vater with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FVC8ZZ	Restriction of Ampulla of Vater, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FVD0CZ	Restriction of Pancreatic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FVD0DZ	Restriction of Pancreatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FVD0ZZ	Restriction of Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FVD3CZ	Restriction of Pancreatic Duct with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FVD3DZ	Restriction of Pancreatic Duct with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FVD3ZZ	Restriction of Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FVD4CZ	Restriction of Pancreatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FVD4DZ	Restriction of Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FVD4ZZ	Restriction of Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FVD7DZ	Restriction of Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FVD7ZZ	Restriction of Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FVD8DZ	Restriction of Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FVD8ZZ	Restriction of Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FVF0CZ	Restriction of Accessory Pancreatic Duct with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FVF0DZ	Restriction of Accessory Pancreatic Duct with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0FVF0ZZ	Restriction of Accessory Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FVF3CZ	Restriction of Accessory Pancreatic Duct with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FVF3DZ	Restriction of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0FVF3ZZ	Restriction of Accessory Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FVF4CZ	Restriction of Accessory Pancreatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FVF4DZ	Restriction of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FVF4ZZ	Restriction of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FVF7DZ	Restriction of Accessory Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FVF7ZZ	Restriction of Accessory Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FVF8DZ	Restriction of Accessory Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FVF8ZZ	Restriction of Accessory Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FW000Z	Revision of Drainage Device in Liver, Open Approach	Procedure	ICD-10-PCS
0FW002Z	Revision of Monitoring Device in Liver, Open Approach	Procedure	ICD-10-PCS
0FW003Z	Revision of Infusion Device in Liver, Open Approach	Procedure	ICD-10-PCS
0FW00YZ	Revision of Other Device in Liver, Open Approach	Procedure	ICD-10-PCS
0FW030Z	Revision of Drainage Device in Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FW032Z	Revision of Monitoring Device in Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FW033Z	Revision of Infusion Device in Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FW03YZ	Revision of Other Device in Liver, Percutaneous Approach	Procedure	ICD-10-PCS
0FW040Z	Revision of Drainage Device in Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FW042Z	Revision of Monitoring Device in Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FW043Z	Revision of Infusion Device in Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FW04YZ	Revision of Other Device in Liver, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FW400Z	Revision of Drainage Device in Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FW402Z	Revision of Monitoring Device in Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FW403Z	Revision of Infusion Device in Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FW40DZ	Revision of Intraluminal Device in Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FW40YZ	Revision of Other Device in Gallbladder, Open Approach	Procedure	ICD-10-PCS
0FW430Z	Revision of Drainage Device in Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FW432Z	Revision of Monitoring Device in Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FW433Z	Revision of Infusion Device in Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FW43DZ	Revision of Intraluminal Device in Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FW43YZ	Revision of Other Device in Gallbladder, Percutaneous Approach	Procedure	ICD-10-PCS
0FW440Z	Revision of Drainage Device in Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FW442Z	Revision of Monitoring Device in Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FW443Z	Revision of Infusion Device in Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FW44DZ	Revision of Intraluminal Device in Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FW44YZ	Revision of Other Device in Gallbladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWB00Z	Revision of Drainage Device in Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FWB02Z	Revision of Monitoring Device in Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FWB03Z	Revision of Infusion Device in Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FWB07Z	Revision of Autologous Tissue Substitute in Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FWB0CZ	Revision of Extraluminal Device in Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FWB0DZ	Revision of Intraluminal Device in Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FWB0JZ	Revision of Synthetic Substitute in Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FWB0KZ	Revision of Nonautologous Tissue Substitute in Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FWB0YZ	Revision of Other Device in Hepatobiliary Duct, Open Approach	Procedure	ICD-10-PCS
0FWB30Z	Revision of Drainage Device in Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWB32Z	Revision of Monitoring Device in Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWB33Z	Revision of Infusion Device in Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWB37Z	Revision of Autologous Tissue Substitute in Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWB3CZ	Revision of Extraluminal Device in Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWB3DZ	Revision of Intraluminal Device in Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWB3JZ	Revision of Synthetic Substitute in Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWB3KZ	Revision of Nonautologous Tissue Substitute in Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWB3YZ	Revision of Other Device in Hepatobiliary Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWB40Z	Revision of Drainage Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWB42Z	Revision of Monitoring Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWB43Z	Revision of Infusion Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWB47Z	Revision of Autologous Tissue Substitute in Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWB4CZ	Revision of Extraluminal Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWB4DZ	Revision of Intraluminal Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWB4JZ	Revision of Synthetic Substitute in Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWB4KZ	Revision of Nonautologous Tissue Substitute in Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWB4YZ	Revision of Other Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FWB77Z	Revision of Autologous Tissue Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FWB7CZ	Revision of Extraluminal Device in Hepatobiliary Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FWB7JZ	Revision of Synthetic Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FWB7KZ	Revision of Nonautologous Tissue Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FWB87Z	Revision of Autologous Tissue Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FWB8CZ	Revision of Extraluminal Device in Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FWB8JZ	Revision of Synthetic Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FWB8KZ	Revision of Nonautologous Tissue Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FWD00Z	Revision of Drainage Device in Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FWD02Z	Revision of Monitoring Device in Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FWD03Z	Revision of Infusion Device in Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FWD07Z	Revision of Autologous Tissue Substitute in Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FWD0CZ	Revision of Extraluminal Device in Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FWD0DZ	Revision of Intraluminal Device in Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FWD0JZ	Revision of Synthetic Substitute in Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FWD0KZ	Revision of Nonautologous Tissue Substitute in Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FWD0YZ	Revision of Other Device in Pancreatic Duct, Open Approach	Procedure	ICD-10-PCS
0FWD30Z	Revision of Drainage Device in Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWD32Z	Revision of Monitoring Device in Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWD33Z	Revision of Infusion Device in Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWD37Z	Revision of Autologous Tissue Substitute in Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWD3CZ	Revision of Extraluminal Device in Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWD3DZ	Revision of Intraluminal Device in Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWD3JZ	Revision of Synthetic Substitute in Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWD3KZ	Revision of Nonautologous Tissue Substitute in Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWD3YZ	Revision of Other Device in Pancreatic Duct, Percutaneous Approach	Procedure	ICD-10-PCS
0FWD40Z	Revision of Drainage Device in Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWD42Z	Revision of Monitoring Device in Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWD43Z	Revision of Infusion Device in Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWD47Z	Revision of Autologous Tissue Substitute in Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FWD4CZ	Revision of Extraluminal Device in Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWD4DZ	Revision of Intraluminal Device in Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWD4JZ	Revision of Synthetic Substitute in Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWD4KZ	Revision of Nonautologous Tissue Substitute in Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWD4YZ	Revision of Other Device in Pancreatic Duct, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWD77Z	Revision of Autologous Tissue Substitute in Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FWD7CZ	Revision of Extraluminal Device in Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FWD7JZ	Revision of Synthetic Substitute in Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FWD7KZ	Revision of Nonautologous Tissue Substitute in Pancreatic Duct, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0FWD87Z	Revision of Autologous Tissue Substitute in Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FWD8CZ	Revision of Extraluminal Device in Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FWD8JZ	Revision of Synthetic Substitute in Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FWD8KZ	Revision of Nonautologous Tissue Substitute in Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0FWG00Z	Revision of Drainage Device in Pancreas, Open Approach	Procedure	ICD-10-PCS
0FWG02Z	Revision of Monitoring Device in Pancreas, Open Approach	Procedure	ICD-10-PCS
0FWG03Z	Revision of Infusion Device in Pancreas, Open Approach	Procedure	ICD-10-PCS
0FWG0DZ	Revision of Intraluminal Device in Pancreas, Open Approach	Procedure	ICD-10-PCS
0FWG0YZ	Revision of Other Device in Pancreas, Open Approach	Procedure	ICD-10-PCS
0FWG30Z	Revision of Drainage Device in Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FWG32Z	Revision of Monitoring Device in Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FWG33Z	Revision of Infusion Device in Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FWG3DZ	Revision of Intraluminal Device in Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FWG3YZ	Revision of Other Device in Pancreas, Percutaneous Approach	Procedure	ICD-10-PCS
0FWG40Z	Revision of Drainage Device in Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWG42Z	Revision of Monitoring Device in Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWG43Z	Revision of Infusion Device in Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWG4DZ	Revision of Intraluminal Device in Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FWG4YZ	Revision of Other Device in Pancreas, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0FY00Z0	Transplantation of Liver, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0FY00Z1	Transplantation of Liver, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0FY00Z2	Transplantation of Liver, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0FYG0Z0	Transplantation of Pancreas, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0FYG0Z1	Transplantation of Pancreas, Syngeneic, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0FYG0Z2	Transplantation of Pancreas, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0G500Z3	Destruction of Pituitary Gland using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0G500ZZ	Destruction of Pituitary Gland, Open Approach	Procedure	ICD-10-PCS
0G503Z3	Destruction of Pituitary Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0G503ZZ	Destruction of Pituitary Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0G504Z3	Destruction of Pituitary Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G504ZZ	Destruction of Pituitary Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G510Z3	Destruction of Pineal Body using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0G510ZZ	Destruction of Pineal Body, Open Approach	Procedure	ICD-10-PCS
0G513Z3	Destruction of Pineal Body using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0G513ZZ	Destruction of Pineal Body, Percutaneous Approach	Procedure	ICD-10-PCS
0G514Z3	Destruction of Pineal Body using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G514ZZ	Destruction of Pineal Body, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G520Z3	Destruction of Left Adrenal Gland using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0G520ZZ	Destruction of Left Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0G523Z3	Destruction of Left Adrenal Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0G523ZZ	Destruction of Left Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0G524Z3	Destruction of Left Adrenal Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G524ZZ	Destruction of Left Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G530Z3	Destruction of Right Adrenal Gland using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0G530ZZ	Destruction of Right Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0G533Z3	Destruction of Right Adrenal Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0G533ZZ	Destruction of Right Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0G534Z3	Destruction of Right Adrenal Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G534ZZ	Destruction of Right Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G540Z3	Destruction of Bilateral Adrenal Glands using Laser Interstitial Thermal Therapy, Open Approach	Procedure	ICD-10-PCS
0G540ZZ	Destruction of Bilateral Adrenal Glands, Open Approach	Procedure	ICD-10-PCS
0G543Z3	Destruction of Bilateral Adrenal Glands using Laser Interstitial Thermal Therapy, Percutaneous Approach	Procedure	ICD-10-PCS
0G543ZZ	Destruction of Bilateral Adrenal Glands, Percutaneous Approach	Procedure	ICD-10-PCS
0G544Z3	Destruction of Bilateral Adrenal Glands using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0G544ZZ	Destruction of Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G9200Z	Drainage of Left Adrenal Gland with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0G920ZZ	Drainage of Left Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0G9240Z	Drainage of Left Adrenal Gland with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G924ZZ	Drainage of Left Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G9300Z	Drainage of Right Adrenal Gland with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0G930ZZ	Drainage of Right Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0G9340Z	Drainage of Right Adrenal Gland with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G934ZZ	Drainage of Right Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G9400Z	Drainage of Bilateral Adrenal Glands with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0G940ZZ	Drainage of Bilateral Adrenal Glands, Open Approach	Procedure	ICD-10-PCS
0G9440Z	Drainage of Bilateral Adrenal Glands with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0G944ZZ	Drainage of Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GB20ZZ	Excision of Left Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GB23ZZ	Excision of Left Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0GB24ZZ	Excision of Left Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GB30ZZ	Excision of Right Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GB33ZZ	Excision of Right Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0GB34ZZ	Excision of Right Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GB40ZZ	Excision of Bilateral Adrenal Glands, Open Approach	Procedure	ICD-10-PCS
0GB43ZZ	Excision of Bilateral Adrenal Glands, Percutaneous Approach	Procedure	ICD-10-PCS
0GB44ZZ	Excision of Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GC20ZZ	Extirpation of Matter from Left Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GC23ZZ	Extirpation of Matter from Left Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0GC24ZZ	Extirpation of Matter from Left Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GC30ZZ	Extirpation of Matter from Right Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GC33ZZ	Extirpation of Matter from Right Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0GC34ZZ	Extirpation of Matter from Right Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GC40ZZ	Extirpation of Matter from Bilateral Adrenal Glands, Open Approach	Procedure	ICD-10-PCS
0GC43ZZ	Extirpation of Matter from Bilateral Adrenal Glands, Percutaneous Approach	Procedure	ICD-10-PCS
0GC44ZZ	Extirpation of Matter from Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GM20ZZ	Reattachment of Left Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GM24ZZ	Reattachment of Left Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GM30ZZ	Reattachment of Right Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GM34ZZ	Reattachment of Right Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GN20ZZ	Release Left Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GN23ZZ	Release Left Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0GN24ZZ	Release Left Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GN30ZZ	Release Right Adrenal Gland, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0GN33ZZ	Release Right Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0GN34ZZ	Release Right Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GN40ZZ	Release Bilateral Adrenal Glands, Open Approach	Procedure	ICD-10-PCS
0GN43ZZ	Release Bilateral Adrenal Glands, Percutaneous Approach	Procedure	ICD-10-PCS
0GN44ZZ	Release Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GP500Z	Removal of Drainage Device from Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GP530Z	Removal of Drainage Device from Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0GP540Z	Removal of Drainage Device from Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GQ20ZZ	Repair Left Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GQ23ZZ	Repair Left Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0GQ24ZZ	Repair Left Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GQ30ZZ	Repair Right Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GQ33ZZ	Repair Right Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0GQ34ZZ	Repair Right Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GQ40ZZ	Repair Bilateral Adrenal Glands, Open Approach	Procedure	ICD-10-PCS
0GQ43ZZ	Repair Bilateral Adrenal Glands, Percutaneous Approach	Procedure	ICD-10-PCS
0GQ44ZZ	Repair Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GS20ZZ	Reposition Left Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GS24ZZ	Reposition Left Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GS30ZZ	Reposition Right Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GS34ZZ	Reposition Right Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GT20ZZ	Resection of Left Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GT24ZZ	Resection of Left Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GT30ZZ	Resection of Right Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GT34ZZ	Resection of Right Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GT40ZZ	Resection of Bilateral Adrenal Glands, Open Approach	Procedure	ICD-10-PCS
0GT44ZZ	Resection of Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0GW500Z	Revision of Drainage Device in Adrenal Gland, Open Approach	Procedure	ICD-10-PCS
0GW530Z	Revision of Drainage Device in Adrenal Gland, Percutaneous Approach	Procedure	ICD-10-PCS
0GW540Z	Revision of Drainage Device in Adrenal Gland, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0K8K0ZZ	Division of Right Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0K8K3ZZ	Division of Right Abdomen Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
0K8K4ZZ	Division of Right Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0K8L0ZZ	Division of Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0K8L3ZZ	Division of Left Abdomen Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
0K8L4ZZ	Division of Left Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0K9L00Z	Drainage of Left Abdomen Muscle with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0K9L0ZZ	Drainage of Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0K9L40Z	Drainage of Left Abdomen Muscle with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0K9L4ZZ	Drainage of Left Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KBK0ZZ	Excision of Right Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KBK4ZZ	Excision of Right Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0KBL0ZZ	Excision of Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KBL4ZZ	Excision of Left Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KCK0ZZ	Extirpation of Matter from Right Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KCK3ZZ	Extirpation of Matter from Right Abdomen Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
0KCK4ZZ	Extirpation of Matter from Right Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KCL0ZZ	Extirpation of Matter from Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KCL3ZZ	Extirpation of Matter from Left Abdomen Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
0KCL4ZZ	Extirpation of Matter from Left Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KDK0ZZ	Extraction of Right Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KDL0ZZ	Extraction of Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KMK0ZZ	Reattachment of Right Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KMK4ZZ	Reattachment of Right Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KML0ZZ	Reattachment of Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KML4ZZ	Reattachment of Left Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KNK0ZZ	Release Right Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KNK3ZZ	Release Right Abdomen Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
0KNK4ZZ	Release Right Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KNL0ZZ	Release Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KNL3ZZ	Release Left Abdomen Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
0KNL4ZZ	Release Left Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KQK0ZZ	Repair Right Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KQK3ZZ	Repair Right Abdomen Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
0KQK4ZZ	Repair Right Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KQL0ZZ	Repair Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KQL3ZZ	Repair Left Abdomen Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
0KQL4ZZ	Repair Left Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KRK07Z	Replacement of Right Abdomen Muscle with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0KRK0JZ	Replacement of Right Abdomen Muscle with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0KRK0KZ	Replacement of Right Abdomen Muscle with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0KRK47Z	Replacement of Right Abdomen Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KRK4JZ	Replacement of Right Abdomen Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KRK4KZ	Replacement of Right Abdomen Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KRL07Z	Replacement of Left Abdomen Muscle with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0KRL0JZ	Replacement of Left Abdomen Muscle with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0KRL0KZ	Replacement of Left Abdomen Muscle with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0KRL47Z	Replacement of Left Abdomen Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KRL4JZ	Replacement of Left Abdomen Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KRL4KZ	Replacement of Left Abdomen Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KSK0ZZ	Reposition Right Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KSK4ZZ	Reposition Right Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KSL0ZZ	Reposition Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KSL4ZZ	Reposition Left Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KTK0ZZ	Resection of Right Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KTK4ZZ	Resection of Right Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KTL0ZZ	Resection of Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KTL4ZZ	Resection of Left Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KUK07Z	Supplement Right Abdomen Muscle with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0KUK0JZ	Supplement Right Abdomen Muscle with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0KUK0KZ	Supplement Right Abdomen Muscle with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0KUK47Z	Supplement Right Abdomen Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KUK4JZ	Supplement Right Abdomen Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KUK4KZ	Supplement Right Abdomen Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KUL07Z	Supplement Left Abdomen Muscle with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0KUL0JZ	Supplement Left Abdomen Muscle with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0KUL0KZ	Supplement Left Abdomen Muscle with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0KUL47Z	Supplement Left Abdomen Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KUL4JZ	Supplement Left Abdomen Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KUL4KZ	Supplement Left Abdomen Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KXK0Z0	Transfer Right Abdomen Muscle with Skin, Open Approach	Procedure	ICD-10-PCS
0KXK0Z1	Transfer Right Abdomen Muscle with Subcutaneous Tissue, Open Approach	Procedure	ICD-10-PCS
0KXK0Z2	Transfer Right Abdomen Muscle with Skin and Subcutaneous Tissue, Open Approach	Procedure	ICD-10-PCS
0KXK0Z6	Transfer Right Abdomen Muscle, Transverse Rectus Abdominis Myocutaneous Flap, Open Approach	Procedure	ICD-10-PCS
0KXK0ZZ	Transfer Right Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0KXK4Z0	Transfer Right Abdomen Muscle with Skin, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KXK4Z1	Transfer Right Abdomen Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KXK4Z2	Transfer Right Abdomen Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KXK4Z6	Transfer Right Abdomen Muscle, Transverse Rectus Abdominis Myocutaneous Flap, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KXK4ZZ	Transfer Right Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KXL0Z0	Transfer Left Abdomen Muscle with Skin, Open Approach	Procedure	ICD-10-PCS
0KXL0Z1	Transfer Left Abdomen Muscle with Subcutaneous Tissue, Open Approach	Procedure	ICD-10-PCS
0KXL0Z2	Transfer Left Abdomen Muscle with Skin and Subcutaneous Tissue, Open Approach	Procedure	ICD-10-PCS
0KXL0Z6	Transfer Left Abdomen Muscle, Transverse Rectus Abdominis Myocutaneous Flap, Open Approach	Procedure	ICD-10-PCS
0KXL0ZZ	Transfer Left Abdomen Muscle, Open Approach	Procedure	ICD-10-PCS
0KXL4Z0	Transfer Left Abdomen Muscle with Skin, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KXL4Z1	Transfer Left Abdomen Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KXL4Z2	Transfer Left Abdomen Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KXL4Z6	Transfer Left Abdomen Muscle, Transverse Rectus Abdominis Myocutaneous Flap, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0KXL4ZZ	Transfer Left Abdomen Muscle, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0L5F0ZZ	Destruction of Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0L5F3ZZ	Destruction of Right Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0L5F4ZZ	Destruction of Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0L5G0ZZ	Destruction of Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0L5G3ZZ	Destruction of Left Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0L5G4ZZ	Destruction of Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0L8F0ZZ	Division of Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0L8F3ZZ	Division of Right Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0L8F4ZZ	Division of Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0L8G0ZZ	Division of Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0L8G3ZZ	Division of Left Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0L8G4ZZ	Division of Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0L9F00Z	Drainage of Right Abdomen Tendon with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0L9F0ZZ	Drainage of Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0L9F40Z	Drainage of Right Abdomen Tendon with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0L9F4ZZ	Drainage of Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0L9G00Z	Drainage of Left Abdomen Tendon with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0L9G0ZZ	Drainage of Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0L9G40Z	Drainage of Left Abdomen Tendon with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0L9G4ZZ	Drainage of Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0LBF0ZZ	Excision of Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LBF3ZZ	Excision of Right Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0LBF4ZZ	Excision of Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LBG0ZZ	Excision of Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LBG3ZZ	Excision of Left Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0LBG4ZZ	Excision of Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LCF0ZZ	Extirpation of Matter from Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LCF3ZZ	Extirpation of Matter from Right Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0LCF4ZZ	Extirpation of Matter from Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LCG0ZZ	Extirpation of Matter from Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LCG3ZZ	Extirpation of Matter from Left Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0LCG4ZZ	Extirpation of Matter from Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LDF0ZZ	Extraction of Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LDG0ZZ	Extraction of Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LMF0ZZ	Reattachment of Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LMF4ZZ	Reattachment of Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LMG0ZZ	Reattachment of Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LMG4ZZ	Reattachment of Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LNF0ZZ	Release Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LNF3ZZ	Release Right Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0LNF4ZZ	Release Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LNG0ZZ	Release Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LNG3ZZ	Release Left Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0LNG4ZZ	Release Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LQF0ZZ	Repair Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LQF3ZZ	Repair Right Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0LQF4ZZ	Repair Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LQG0ZZ	Repair Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LQG3ZZ	Repair Left Abdomen Tendon, Percutaneous Approach	Procedure	ICD-10-PCS
0LQG4ZZ	Repair Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LRF07Z	Replacement of Right Abdomen Tendon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0LRF0JZ	Replacement of Right Abdomen Tendon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0LRF0KZ	Replacement of Right Abdomen Tendon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0LRF47Z	Replacement of Right Abdomen Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LRF4JZ	Replacement of Right Abdomen Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LRF4KZ	Replacement of Right Abdomen Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0LRG07Z	Replacement of Left Abdomen Tendon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0LRG0JZ	Replacement of Left Abdomen Tendon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0LRG0KZ	Replacement of Left Abdomen Tendon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0LRG47Z	Replacement of Left Abdomen Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LRG4JZ	Replacement of Left Abdomen Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LRG4KZ	Replacement of Left Abdomen Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LSF0ZZ	Reposition Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LSF4ZZ	Reposition Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LSG0ZZ	Reposition Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LSG4ZZ	Reposition Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LTF0ZZ	Resection of Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LTF4ZZ	Resection of Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LTG0ZZ	Resection of Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LTG4ZZ	Resection of Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LUF07Z	Supplement Right Abdomen Tendon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0LUF0JZ	Supplement Right Abdomen Tendon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0LUF0KZ	Supplement Right Abdomen Tendon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0LUF47Z	Supplement Right Abdomen Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LUF4JZ	Supplement Right Abdomen Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LUF4KZ	Supplement Right Abdomen Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LUG07Z	Supplement Left Abdomen Tendon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0LUG0JZ	Supplement Left Abdomen Tendon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0LUG0KZ	Supplement Left Abdomen Tendon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0LUG47Z	Supplement Left Abdomen Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LUG4JZ	Supplement Left Abdomen Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LUG4KZ	Supplement Left Abdomen Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LXF0ZZ	Transfer Right Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS
0LXF4ZZ	Transfer Right Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0LXG0ZZ	Transfer Left Abdomen Tendon, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0LXG4ZZ	Transfer Left Abdomen Tendon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0M5H0ZZ	Destruction of Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0M5H3ZZ	Destruction of Right Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0M5H4ZZ	Destruction of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0M5J0ZZ	Destruction of Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0M5J3ZZ	Destruction of Left Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0M5J4ZZ	Destruction of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0M8H0ZZ	Division of Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0M8H3ZZ	Division of Right Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0M8H4ZZ	Division of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0M8J0ZZ	Division of Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0M8J3ZZ	Division of Left Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0M8J4ZZ	Division of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0M9H00Z	Drainage of Right Abdomen Bursa and Ligament with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0M9H0ZZ	Drainage of Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0M9H40Z	Drainage of Right Abdomen Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0M9H4ZZ	Drainage of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0M9J00Z	Drainage of Left Abdomen Bursa and Ligament with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0M9J0ZZ	Drainage of Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0M9J40Z	Drainage of Left Abdomen Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0M9J4ZZ	Drainage of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MBH0ZZ	Excision of Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MBH3ZZ	Excision of Right Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0MBH4ZZ	Excision of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MBJ0ZZ	Excision of Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MBJ3ZZ	Excision of Left Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0MBJ4ZZ	Excision of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MCH0ZZ	Extirpation of Matter from Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MCH3ZZ	Extirpation of Matter from Right Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0MCH4ZZ	Extirpation of Matter from Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MCJ0ZZ	Extirpation of Matter from Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0MCJ3ZZ	Extirpation of Matter from Left Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0MCJ4ZZ	Extirpation of Matter from Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MDH0ZZ	Extraction of Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MDH3ZZ	Extraction of Right Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0MDH4ZZ	Extraction of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MDJ0ZZ	Extraction of Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MDJ3ZZ	Extraction of Left Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0MDJ4ZZ	Extraction of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MMH0ZZ	Reattachment of Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MMH4ZZ	Reattachment of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MMJ0ZZ	Reattachment of Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MMJ4ZZ	Reattachment of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MNH0ZZ	Release Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MNH3ZZ	Release Right Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0MNH4ZZ	Release Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MNJ0ZZ	Release Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MNJ3ZZ	Release Left Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0MNJ4ZZ	Release Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MQH0ZZ	Repair Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MQH3ZZ	Repair Right Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0MQH4ZZ	Repair Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MQJ0ZZ	Repair Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MQJ3ZZ	Repair Left Abdomen Bursa and Ligament, Percutaneous Approach	Procedure	ICD-10-PCS
0MQJ4ZZ	Repair Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MRH07Z	Replacement of Right Abdomen Bursa and Ligament with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0MRH0JZ	Replacement of Right Abdomen Bursa and Ligament with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0MRH0KZ	Replacement of Right Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0MRH47Z	Replacement of Right Abdomen Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MRH4JZ	Replacement of Right Abdomen Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MRH4KZ	Replacement of Right Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MRJ07Z	Replacement of Left Abdomen Bursa and Ligament with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0MRJ0JZ	Replacement of Left Abdomen Bursa and Ligament with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0MRJ0KZ	Replacement of Left Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0MRJ47Z	Replacement of Left Abdomen Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MRJ4JZ	Replacement of Left Abdomen Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MRJ4KZ	Replacement of Left Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MSH0ZZ	Reposition Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MSH4ZZ	Reposition Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MSJ0ZZ	Reposition Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MSJ4ZZ	Reposition Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MUH07Z	Supplement Right Abdomen Bursa and Ligament with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0MUH0JZ	Supplement Right Abdomen Bursa and Ligament with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0MUH0KZ	Supplement Right Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0MUH47Z	Supplement Right Abdomen Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MUH4JZ	Supplement Right Abdomen Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MUH4KZ	Supplement Right Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MUJ07Z	Supplement Left Abdomen Bursa and Ligament with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0MUJ0JZ	Supplement Left Abdomen Bursa and Ligament with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0MUJ0KZ	Supplement Left Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0MUJ47Z	Supplement Left Abdomen Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MUJ4JZ	Supplement Left Abdomen Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MUJ4KZ	Supplement Left Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MXH0ZZ	Transfer Right Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS
0MXH4ZZ	Transfer Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0MXJ0ZZ	Transfer Left Abdomen Bursa and Ligament, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0MXJ4ZZ	Transfer Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T13073	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T13074	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T13076	Bypass Right Kidney Pelvis to Right Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T13077	Bypass Right Kidney Pelvis to Left Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T13078	Bypass Right Kidney Pelvis to Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T13079	Bypass Right Kidney Pelvis to Colocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1307A	Bypass Right Kidney Pelvis to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1307B	Bypass Right Kidney Pelvis to Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1307C	Bypass Right Kidney Pelvis to Ileocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1307D	Bypass Right Kidney Pelvis to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T130J3	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T130J4	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T130J6	Bypass Right Kidney Pelvis to Right Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T130J7	Bypass Right Kidney Pelvis to Left Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T130J8	Bypass Right Kidney Pelvis to Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T130J9	Bypass Right Kidney Pelvis to Colocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T130JA	Bypass Right Kidney Pelvis to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T130JB	Bypass Right Kidney Pelvis to Bladder with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T130JC	Bypass Right Kidney Pelvis to Ileocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T130JD	Bypass Right Kidney Pelvis to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T130K3	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T130K4	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T130K6	Bypass Right Kidney Pelvis to Right Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T130K7	Bypass Right Kidney Pelvis to Left Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T130K8	Bypass Right Kidney Pelvis to Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T130K9	Bypass Right Kidney Pelvis to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T130KA	Bypass Right Kidney Pelvis to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T130KB	Bypass Right Kidney Pelvis to Bladder with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T130KC	Bypass Right Kidney Pelvis to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T130KD	Bypass Right Kidney Pelvis to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T130Z3	Bypass Right Kidney Pelvis to Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0T130Z4	Bypass Right Kidney Pelvis to Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0T130Z6	Bypass Right Kidney Pelvis to Right Ureter, Open Approach	Procedure	ICD-10-PCS
0T130Z7	Bypass Right Kidney Pelvis to Left Ureter, Open Approach	Procedure	ICD-10-PCS
0T130Z8	Bypass Right Kidney Pelvis to Colon, Open Approach	Procedure	ICD-10-PCS
0T130Z9	Bypass Right Kidney Pelvis to Colocutaneous, Open Approach	Procedure	ICD-10-PCS
0T130ZA	Bypass Right Kidney Pelvis to Ileum, Open Approach	Procedure	ICD-10-PCS
0T130ZB	Bypass Right Kidney Pelvis to Bladder, Open Approach	Procedure	ICD-10-PCS
0T130ZC	Bypass Right Kidney Pelvis to Ileocutaneous, Open Approach	Procedure	ICD-10-PCS
0T130ZD	Bypass Right Kidney Pelvis to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0T133JD	Bypass Right Kidney Pelvis to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0T13473	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T13474	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T13476	Bypass Right Kidney Pelvis to Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T13477	Bypass Right Kidney Pelvis to Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T13478	Bypass Right Kidney Pelvis to Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T13479	Bypass Right Kidney Pelvis to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1347A	Bypass Right Kidney Pelvis to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1347B	Bypass Right Kidney Pelvis to Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1347C	Bypass Right Kidney Pelvis to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T1347D	Bypass Right Kidney Pelvis to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134J3	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134J4	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134J6	Bypass Right Kidney Pelvis to Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134J7	Bypass Right Kidney Pelvis to Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134J8	Bypass Right Kidney Pelvis to Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134J9	Bypass Right Kidney Pelvis to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134JA	Bypass Right Kidney Pelvis to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134JB	Bypass Right Kidney Pelvis to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134JC	Bypass Right Kidney Pelvis to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134JD	Bypass Right Kidney Pelvis to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134K3	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134K4	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134K6	Bypass Right Kidney Pelvis to Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134K7	Bypass Right Kidney Pelvis to Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134K8	Bypass Right Kidney Pelvis to Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134K9	Bypass Right Kidney Pelvis to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134KA	Bypass Right Kidney Pelvis to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134KB	Bypass Right Kidney Pelvis to Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134KC	Bypass Right Kidney Pelvis to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134KD	Bypass Right Kidney Pelvis to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134Z3	Bypass Right Kidney Pelvis to Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T134Z4	Bypass Right Kidney Pelvis to Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134Z6	Bypass Right Kidney Pelvis to Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134Z7	Bypass Right Kidney Pelvis to Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134Z8	Bypass Right Kidney Pelvis to Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134Z9	Bypass Right Kidney Pelvis to Colocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134ZA	Bypass Right Kidney Pelvis to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134ZB	Bypass Right Kidney Pelvis to Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134ZC	Bypass Right Kidney Pelvis to Ileocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T134ZD	Bypass Right Kidney Pelvis to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T14073	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T14074	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T14076	Bypass Left Kidney Pelvis to Right Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T14077	Bypass Left Kidney Pelvis to Left Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T14078	Bypass Left Kidney Pelvis to Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T14079	Bypass Left Kidney Pelvis to Colocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1407A	Bypass Left Kidney Pelvis to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1407B	Bypass Left Kidney Pelvis to Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1407C	Bypass Left Kidney Pelvis to Ileocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1407D	Bypass Left Kidney Pelvis to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140J3	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T140J4	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T140J6	Bypass Left Kidney Pelvis to Right Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T140J7	Bypass Left Kidney Pelvis to Left Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T140J8	Bypass Left Kidney Pelvis to Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T140J9	Bypass Left Kidney Pelvis to Colocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T140JA	Bypass Left Kidney Pelvis to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T140JB	Bypass Left Kidney Pelvis to Bladder with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T140JC	Bypass Left Kidney Pelvis to Ileocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T140JD	Bypass Left Kidney Pelvis to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T140K3	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140K4	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140K6	Bypass Left Kidney Pelvis to Right Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140K7	Bypass Left Kidney Pelvis to Left Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140K8	Bypass Left Kidney Pelvis to Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140K9	Bypass Left Kidney Pelvis to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140KA	Bypass Left Kidney Pelvis to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140KB	Bypass Left Kidney Pelvis to Bladder with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140KC	Bypass Left Kidney Pelvis to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140KD	Bypass Left Kidney Pelvis to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T140Z3	Bypass Left Kidney Pelvis to Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0T140Z4	Bypass Left Kidney Pelvis to Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0T140Z6	Bypass Left Kidney Pelvis to Right Ureter, Open Approach	Procedure	ICD-10-PCS
0T140Z7	Bypass Left Kidney Pelvis to Left Ureter, Open Approach	Procedure	ICD-10-PCS
0T140Z8	Bypass Left Kidney Pelvis to Colon, Open Approach	Procedure	ICD-10-PCS
0T140Z9	Bypass Left Kidney Pelvis to Colocutaneous, Open Approach	Procedure	ICD-10-PCS
0T140ZA	Bypass Left Kidney Pelvis to Ileum, Open Approach	Procedure	ICD-10-PCS
0T140ZB	Bypass Left Kidney Pelvis to Bladder, Open Approach	Procedure	ICD-10-PCS
0T140ZC	Bypass Left Kidney Pelvis to Ileocutaneous, Open Approach	Procedure	ICD-10-PCS
0T140ZD	Bypass Left Kidney Pelvis to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0T143JD	Bypass Left Kidney Pelvis to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0T14473	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T14474	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T14476	Bypass Left Kidney Pelvis to Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T14477	Bypass Left Kidney Pelvis to Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T14478	Bypass Left Kidney Pelvis to Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T14479	Bypass Left Kidney Pelvis to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1447A	Bypass Left Kidney Pelvis to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1447B	Bypass Left Kidney Pelvis to Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1447C	Bypass Left Kidney Pelvis to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1447D	Bypass Left Kidney Pelvis to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144J3	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144J4	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144J6	Bypass Left Kidney Pelvis to Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144J7	Bypass Left Kidney Pelvis to Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144J8	Bypass Left Kidney Pelvis to Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144J9	Bypass Left Kidney Pelvis to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144JA	Bypass Left Kidney Pelvis to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144JB	Bypass Left Kidney Pelvis to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144JC	Bypass Left Kidney Pelvis to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144JD	Bypass Left Kidney Pelvis to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144K3	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144K4	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144K6	Bypass Left Kidney Pelvis to Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144K7	Bypass Left Kidney Pelvis to Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144K8	Bypass Left Kidney Pelvis to Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144K9	Bypass Left Kidney Pelvis to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T144KA	Bypass Left Kidney Pelvis to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144KB	Bypass Left Kidney Pelvis to Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144KC	Bypass Left Kidney Pelvis to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144KD	Bypass Left Kidney Pelvis to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144Z3	Bypass Left Kidney Pelvis to Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144Z4	Bypass Left Kidney Pelvis to Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144Z6	Bypass Left Kidney Pelvis to Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144Z7	Bypass Left Kidney Pelvis to Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144Z8	Bypass Left Kidney Pelvis to Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144Z9	Bypass Left Kidney Pelvis to Colocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144ZA	Bypass Left Kidney Pelvis to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144ZB	Bypass Left Kidney Pelvis to Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144ZC	Bypass Left Kidney Pelvis to Ileocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T144ZD	Bypass Left Kidney Pelvis to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T16076	Bypass Right Ureter to Right Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T16077	Bypass Right Ureter to Left Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T16078	Bypass Right Ureter to Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T16079	Bypass Right Ureter to Colocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1607A	Bypass Right Ureter to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1607B	Bypass Right Ureter to Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1607C	Bypass Right Ureter to Ileocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1607D	Bypass Right Ureter to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T160J6	Bypass Right Ureter to Right Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T160J7	Bypass Right Ureter to Left Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T160J8	Bypass Right Ureter to Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T160J9	Bypass Right Ureter to Colocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T160JA	Bypass Right Ureter to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T160JB	Bypass Right Ureter to Bladder with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T160JC	Bypass Right Ureter to Ileocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T160JD	Bypass Right Ureter to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T160K6	Bypass Right Ureter to Right Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T160K7	Bypass Right Ureter to Left Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T160K8	Bypass Right Ureter to Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T160K9	Bypass Right Ureter to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T160KA	Bypass Right Ureter to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T160KB	Bypass Right Ureter to Bladder with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T160KC	Bypass Right Ureter to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T160KD	Bypass Right Ureter to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T160Z6	Bypass Right Ureter to Right Ureter, Open Approach	Procedure	ICD-10-PCS
0T160Z7	Bypass Right Ureter to Left Ureter, Open Approach	Procedure	ICD-10-PCS
0T160Z8	Bypass Right Ureter to Colon, Open Approach	Procedure	ICD-10-PCS
0T160Z9	Bypass Right Ureter to Colocutaneous, Open Approach	Procedure	ICD-10-PCS
0T160ZA	Bypass Right Ureter to Ileum, Open Approach	Procedure	ICD-10-PCS
0T160ZB	Bypass Right Ureter to Bladder, Open Approach	Procedure	ICD-10-PCS
0T160ZC	Bypass Right Ureter to Ileocutaneous, Open Approach	Procedure	ICD-10-PCS
0T160ZD	Bypass Right Ureter to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0T163JD	Bypass Right Ureter to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0T16476	Bypass Right Ureter to Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T16477	Bypass Right Ureter to Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T16478	Bypass Right Ureter to Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T16479	Bypass Right Ureter to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1647A	Bypass Right Ureter to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1647B	Bypass Right Ureter to Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1647C	Bypass Right Ureter to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1647D	Bypass Right Ureter to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164J6	Bypass Right Ureter to Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T164J7	Bypass Right Ureter to Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164J8	Bypass Right Ureter to Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164J9	Bypass Right Ureter to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164JA	Bypass Right Ureter to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164JB	Bypass Right Ureter to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164JC	Bypass Right Ureter to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164JD	Bypass Right Ureter to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164K6	Bypass Right Ureter to Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164K7	Bypass Right Ureter to Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164K8	Bypass Right Ureter to Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164K9	Bypass Right Ureter to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164KA	Bypass Right Ureter to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164KB	Bypass Right Ureter to Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164KC	Bypass Right Ureter to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164KD	Bypass Right Ureter to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164Z6	Bypass Right Ureter to Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164Z7	Bypass Right Ureter to Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164Z8	Bypass Right Ureter to Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164Z9	Bypass Right Ureter to Colocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164ZA	Bypass Right Ureter to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164ZB	Bypass Right Ureter to Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164ZC	Bypass Right Ureter to Ileocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T164ZD	Bypass Right Ureter to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T17076	Bypass Left Ureter to Right Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T17077	Bypass Left Ureter to Left Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T17078	Bypass Left Ureter to Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T17079	Bypass Left Ureter to Colocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T1707A	Bypass Left Ureter to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1707B	Bypass Left Ureter to Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1707C	Bypass Left Ureter to Ileocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1707D	Bypass Left Ureter to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T170J6	Bypass Left Ureter to Right Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T170J7	Bypass Left Ureter to Left Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T170J8	Bypass Left Ureter to Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T170J9	Bypass Left Ureter to Colocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T170JA	Bypass Left Ureter to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T170JB	Bypass Left Ureter to Bladder with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T170JC	Bypass Left Ureter to Ileocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T170JD	Bypass Left Ureter to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T170K6	Bypass Left Ureter to Right Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T170K7	Bypass Left Ureter to Left Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T170K8	Bypass Left Ureter to Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T170K9	Bypass Left Ureter to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T170KA	Bypass Left Ureter to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T170KB	Bypass Left Ureter to Bladder with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T170KC	Bypass Left Ureter to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T170KD	Bypass Left Ureter to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T170Z6	Bypass Left Ureter to Right Ureter, Open Approach	Procedure	ICD-10-PCS
0T170Z7	Bypass Left Ureter to Left Ureter, Open Approach	Procedure	ICD-10-PCS
0T170Z8	Bypass Left Ureter to Colon, Open Approach	Procedure	ICD-10-PCS
0T170Z9	Bypass Left Ureter to Colocutaneous, Open Approach	Procedure	ICD-10-PCS
0T170ZA	Bypass Left Ureter to Ileum, Open Approach	Procedure	ICD-10-PCS
0T170ZB	Bypass Left Ureter to Bladder, Open Approach	Procedure	ICD-10-PCS
0T170ZC	Bypass Left Ureter to Ileocutaneous, Open Approach	Procedure	ICD-10-PCS
0T170ZD	Bypass Left Ureter to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0T173JD	Bypass Left Ureter to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0T17476	Bypass Left Ureter to Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T17477	Bypass Left Ureter to Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T17478	Bypass Left Ureter to Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T17479	Bypass Left Ureter to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1747A	Bypass Left Ureter to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1747B	Bypass Left Ureter to Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1747C	Bypass Left Ureter to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1747D	Bypass Left Ureter to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174J6	Bypass Left Ureter to Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174J7	Bypass Left Ureter to Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174J8	Bypass Left Ureter to Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174J9	Bypass Left Ureter to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174JA	Bypass Left Ureter to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174JB	Bypass Left Ureter to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174JC	Bypass Left Ureter to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174JD	Bypass Left Ureter to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174K6	Bypass Left Ureter to Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174K7	Bypass Left Ureter to Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174K8	Bypass Left Ureter to Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174K9	Bypass Left Ureter to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174KA	Bypass Left Ureter to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174KB	Bypass Left Ureter to Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174KC	Bypass Left Ureter to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174KD	Bypass Left Ureter to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174Z6	Bypass Left Ureter to Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T174Z7	Bypass Left Ureter to Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174Z8	Bypass Left Ureter to Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174Z9	Bypass Left Ureter to Colocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174ZA	Bypass Left Ureter to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174ZB	Bypass Left Ureter to Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174ZC	Bypass Left Ureter to Ileocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T174ZD	Bypass Left Ureter to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T18076	Bypass Bilateral Ureters to Right Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T18077	Bypass Bilateral Ureters to Left Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T18078	Bypass Bilateral Ureters to Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T18079	Bypass Bilateral Ureters to Colocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1807A	Bypass Bilateral Ureters to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1807B	Bypass Bilateral Ureters to Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1807C	Bypass Bilateral Ureters to Ileocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1807D	Bypass Bilateral Ureters to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T180J6	Bypass Bilateral Ureters to Right Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T180J7	Bypass Bilateral Ureters to Left Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T180J8	Bypass Bilateral Ureters to Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T180J9	Bypass Bilateral Ureters to Colocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T180JA	Bypass Bilateral Ureters to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T180JB	Bypass Bilateral Ureters to Bladder with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T180JC	Bypass Bilateral Ureters to Ileocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T180JD	Bypass Bilateral Ureters to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T180K6	Bypass Bilateral Ureters to Right Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T180K7	Bypass Bilateral Ureters to Left Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T180K8	Bypass Bilateral Ureters to Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T180K9	Bypass Bilateral Ureters to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T180KA	Bypass Bilateral Ureters to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T180KB	Bypass Bilateral Ureters to Bladder with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T180KC	Bypass Bilateral Ureters to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T180KD	Bypass Bilateral Ureters to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T180Z6	Bypass Bilateral Ureters to Right Ureter, Open Approach	Procedure	ICD-10-PCS
0T180Z7	Bypass Bilateral Ureters to Left Ureter, Open Approach	Procedure	ICD-10-PCS
0T180Z8	Bypass Bilateral Ureters to Colon, Open Approach	Procedure	ICD-10-PCS
0T180Z9	Bypass Bilateral Ureters to Colocutaneous, Open Approach	Procedure	ICD-10-PCS
0T180ZA	Bypass Bilateral Ureters to Ileum, Open Approach	Procedure	ICD-10-PCS
0T180ZB	Bypass Bilateral Ureters to Bladder, Open Approach	Procedure	ICD-10-PCS
0T180ZC	Bypass Bilateral Ureters to Ileocutaneous, Open Approach	Procedure	ICD-10-PCS
0T180ZD	Bypass Bilateral Ureters to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0T183JD	Bypass Bilateral Ureters to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0T18476	Bypass Bilateral Ureters to Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T18477	Bypass Bilateral Ureters to Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T18478	Bypass Bilateral Ureters to Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T18479	Bypass Bilateral Ureters to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1847A	Bypass Bilateral Ureters to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1847B	Bypass Bilateral Ureters to Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1847C	Bypass Bilateral Ureters to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1847D	Bypass Bilateral Ureters to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184J6	Bypass Bilateral Ureters to Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184J7	Bypass Bilateral Ureters to Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184J8	Bypass Bilateral Ureters to Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184J9	Bypass Bilateral Ureters to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184JA	Bypass Bilateral Ureters to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T184JB	Bypass Bilateral Ureters to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184JC	Bypass Bilateral Ureters to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184JD	Bypass Bilateral Ureters to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184K6	Bypass Bilateral Ureters to Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184K7	Bypass Bilateral Ureters to Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184K8	Bypass Bilateral Ureters to Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184K9	Bypass Bilateral Ureters to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184KA	Bypass Bilateral Ureters to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184KB	Bypass Bilateral Ureters to Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184KC	Bypass Bilateral Ureters to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184KD	Bypass Bilateral Ureters to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184Z6	Bypass Bilateral Ureters to Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184Z7	Bypass Bilateral Ureters to Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184Z8	Bypass Bilateral Ureters to Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184Z9	Bypass Bilateral Ureters to Colocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184ZA	Bypass Bilateral Ureters to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184ZB	Bypass Bilateral Ureters to Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184ZC	Bypass Bilateral Ureters to Ileocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T184ZD	Bypass Bilateral Ureters to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B079	Bypass Bladder to Colocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1B07C	Bypass Bladder to Ileocutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1B07D	Bypass Bladder to Cutaneous with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1B0J9	Bypass Bladder to Colocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T1B0JC	Bypass Bladder to Ileocutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T1B0JD	Bypass Bladder to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0T1B0K9	Bypass Bladder to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1B0KC	Bypass Bladder to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0T1B0KD	Bypass Bladder to Cutaneous with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T1B0Z9	Bypass Bladder to Colocutaneous, Open Approach	Procedure	ICD-10-PCS
0T1B0ZC	Bypass Bladder to Ileocutaneous, Open Approach	Procedure	ICD-10-PCS
0T1B0ZD	Bypass Bladder to Cutaneous, Open Approach	Procedure	ICD-10-PCS
0T1B3JD	Bypass Bladder to Cutaneous with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0T1B479	Bypass Bladder to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B47C	Bypass Bladder to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B47D	Bypass Bladder to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B4J9	Bypass Bladder to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B4JC	Bypass Bladder to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B4JD	Bypass Bladder to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B4K9	Bypass Bladder to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B4KC	Bypass Bladder to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B4KD	Bypass Bladder to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B4Z9	Bypass Bladder to Colocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B4ZC	Bypass Bladder to Ileocutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T1B4ZD	Bypass Bladder to Cutaneous, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T500ZZ	Destruction of Right Kidney, Open Approach	Procedure	ICD-10-PCS
0T503ZZ	Destruction of Right Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0T504ZZ	Destruction of Right Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T507ZZ	Destruction of Right Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T508ZZ	Destruction of Right Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T510ZZ	Destruction of Left Kidney, Open Approach	Procedure	ICD-10-PCS
0T513ZZ	Destruction of Left Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0T514ZZ	Destruction of Left Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T517ZZ	Destruction of Left Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T518ZZ	Destruction of Left Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T530ZZ	Destruction of Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0T533ZZ	Destruction of Right Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0T534ZZ	Destruction of Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T537ZZ	Destruction of Right Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T538ZZ	Destruction of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T540ZZ	Destruction of Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0T543ZZ	Destruction of Left Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0T544ZZ	Destruction of Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T547ZZ	Destruction of Left Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T548ZZ	Destruction of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T560ZZ	Destruction of Right Ureter, Open Approach	Procedure	ICD-10-PCS
0T563ZZ	Destruction of Right Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0T564ZZ	Destruction of Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T567ZZ	Destruction of Right Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T568ZZ	Destruction of Right Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T570ZZ	Destruction of Left Ureter, Open Approach	Procedure	ICD-10-PCS
0T573ZZ	Destruction of Left Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0T574ZZ	Destruction of Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T577ZZ	Destruction of Left Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T578ZZ	Destruction of Left Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T5B0ZZ	Destruction of Bladder, Open Approach	Procedure	ICD-10-PCS
0T5B3ZZ	Destruction of Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0T5B4ZZ	Destruction of Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T5B7ZZ	Destruction of Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T5B8ZZ	Destruction of Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T5D0ZZ	Destruction of Urethra, Open Approach	Procedure	ICD-10-PCS
0T5D4ZZ	Destruction of Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T730DZ	Dilation of Right Kidney Pelvis with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0T730ZZ	Dilation of Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0T733DZ	Dilation of Right Kidney Pelvis with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0T733ZZ	Dilation of Right Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0T734DZ	Dilation of Right Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T734ZZ	Dilation of Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T737DZ	Dilation of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T737ZZ	Dilation of Right Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T738DZ	Dilation of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T738ZZ	Dilation of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T740DZ	Dilation of Left Kidney Pelvis with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0T740ZZ	Dilation of Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0T743DZ	Dilation of Left Kidney Pelvis with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0T743ZZ	Dilation of Left Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0T744DZ	Dilation of Left Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T744ZZ	Dilation of Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T747DZ	Dilation of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T747ZZ	Dilation of Left Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T748DZ	Dilation of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T748ZZ	Dilation of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T760DZ	Dilation of Right Ureter with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0T760ZZ	Dilation of Right Ureter, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T763ZZ	Dilation of Right Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0T764DZ	Dilation of Right Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T764ZZ	Dilation of Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T770DZ	Dilation of Left Ureter with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0T770ZZ	Dilation of Left Ureter, Open Approach	Procedure	ICD-10-PCS
0T773ZZ	Dilation of Left Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0T774DZ	Dilation of Left Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T774ZZ	Dilation of Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T780DZ	Dilation of Bilateral Ureters with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0T780ZZ	Dilation of Bilateral Ureters, Open Approach	Procedure	ICD-10-PCS
0T783ZZ	Dilation of Bilateral Ureters, Percutaneous Approach	Procedure	ICD-10-PCS
0T784DZ	Dilation of Bilateral Ureters with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T784ZZ	Dilation of Bilateral Ureters, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T7B0DZ	Dilation of Bladder with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0T7B0ZZ	Dilation of Bladder, Open Approach	Procedure	ICD-10-PCS
0T7B3DZ	Dilation of Bladder with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0T7B3ZZ	Dilation of Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0T7B4DZ	Dilation of Bladder with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T7B4ZZ	Dilation of Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T7D0DZ	Dilation of Urethra with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0T7D0ZZ	Dilation of Urethra, Open Approach	Procedure	ICD-10-PCS
0T7D3ZZ	Dilation of Urethra, Percutaneous Approach	Procedure	ICD-10-PCS
0T7D4DZ	Dilation of Urethra with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T7D4ZZ	Dilation of Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T820ZZ	Division of Bilateral Kidneys, Open Approach	Procedure	ICD-10-PCS
0T823ZZ	Division of Bilateral Kidneys, Percutaneous Approach	Procedure	ICD-10-PCS
0T824ZZ	Division of Bilateral Kidneys, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T9000Z	Drainage of Right Kidney with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0T900ZZ	Drainage of Right Kidney, Open Approach	Procedure	ICD-10-PCS
0T9040Z	Drainage of Right Kidney with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T904ZZ	Drainage of Right Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T9070Z	Drainage of Right Kidney with Drainage Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T907ZZ	Drainage of Right Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T9080Z	Drainage of Right Kidney with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T908ZZ	Drainage of Right Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T9100Z	Drainage of Left Kidney with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0T910ZZ	Drainage of Left Kidney, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T9140Z	Drainage of Left Kidney with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T914ZZ	Drainage of Left Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T9170Z	Drainage of Left Kidney with Drainage Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T917ZZ	Drainage of Left Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T9180Z	Drainage of Left Kidney with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T918ZZ	Drainage of Left Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T9300Z	Drainage of Right Kidney Pelvis with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0T930ZZ	Drainage of Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0T9340Z	Drainage of Right Kidney Pelvis with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T934ZZ	Drainage of Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T9370Z	Drainage of Right Kidney Pelvis with Drainage Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T937ZZ	Drainage of Right Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T9380Z	Drainage of Right Kidney Pelvis with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T938ZZ	Drainage of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T9400Z	Drainage of Left Kidney Pelvis with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0T940ZZ	Drainage of Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0T9440Z	Drainage of Left Kidney Pelvis with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T944ZZ	Drainage of Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T9470Z	Drainage of Left Kidney Pelvis with Drainage Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T947ZZ	Drainage of Left Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T9480Z	Drainage of Left Kidney Pelvis with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T948ZZ	Drainage of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T9600Z	Drainage of Right Ureter with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0T960ZZ	Drainage of Right Ureter, Open Approach	Procedure	ICD-10-PCS
0T9640Z	Drainage of Right Ureter with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T964ZZ	Drainage of Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T967ZZ	Drainage of Right Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T968ZZ	Drainage of Right Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T9700Z	Drainage of Left Ureter with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0T970ZZ	Drainage of Left Ureter, Open Approach	Procedure	ICD-10-PCS
0T9740Z	Drainage of Left Ureter with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T974ZZ	Drainage of Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T977ZZ	Drainage of Left Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T978ZZ	Drainage of Left Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T9800Z	Drainage of Bilateral Ureters with Drainage Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0T980ZZ	Drainage of Bilateral Ureters, Open Approach	Procedure	ICD-10-PCS
0T9840Z	Drainage of Bilateral Ureters with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T984ZZ	Drainage of Bilateral Ureters, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T987ZZ	Drainage of Bilateral Ureters, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0T988ZZ	Drainage of Bilateral Ureters, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0T9B00Z	Drainage of Bladder with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0T9B0ZZ	Drainage of Bladder, Open Approach	Procedure	ICD-10-PCS
0T9B40Z	Drainage of Bladder with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T9B4ZZ	Drainage of Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T9D00Z	Drainage of Urethra with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0T9D0ZZ	Drainage of Urethra, Open Approach	Procedure	ICD-10-PCS
0T9D40Z	Drainage of Urethra with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0T9D4ZZ	Drainage of Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TB00ZZ	Excision of Right Kidney, Open Approach	Procedure	ICD-10-PCS
0TB03ZZ	Excision of Right Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TB04ZZ	Excision of Right Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TB07ZZ	Excision of Right Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TB08ZZ	Excision of Right Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TB10ZZ	Excision of Left Kidney, Open Approach	Procedure	ICD-10-PCS
0TB13ZZ	Excision of Left Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TB14ZZ	Excision of Left Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TB17ZZ	Excision of Left Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TB18ZZ	Excision of Left Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TB30ZZ	Excision of Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TB33ZZ	Excision of Right Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TB34ZZ	Excision of Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TB37ZZ	Excision of Right Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TB38ZZ	Excision of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TB40ZZ	Excision of Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TB43ZZ	Excision of Left Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TB44ZZ	Excision of Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TB47ZZ	Excision of Left Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TB48ZZ	Excision of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TB60ZZ	Excision of Right Ureter, Open Approach	Procedure	ICD-10-PCS
0TB63ZZ	Excision of Right Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TB64ZZ	Excision of Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TB67ZZ	Excision of Right Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TB68ZZ	Excision of Right Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TB70ZZ	Excision of Left Ureter, Open Approach	Procedure	ICD-10-PCS
0TB73ZZ	Excision of Left Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TB74ZZ	Excision of Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TB77ZZ	Excision of Left Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TB78ZZ	Excision of Left Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TBB0ZZ	Excision of Bladder, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TBB3ZZ	Excision of Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TBB4ZZ	Excision of Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TBB7ZZ	Excision of Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TBB8ZZ	Excision of Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TBD0ZZ	Excision of Urethra, Open Approach	Procedure	ICD-10-PCS
0TBD3ZZ	Excision of Urethra, Percutaneous Approach	Procedure	ICD-10-PCS
0TBD4ZZ	Excision of Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TC00ZZ	Extirpation of Matter from Right Kidney, Open Approach	Procedure	ICD-10-PCS
0TC03ZZ	Extirpation of Matter from Right Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TC04ZZ	Extirpation of Matter from Right Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TC10ZZ	Extirpation of Matter from Left Kidney, Open Approach	Procedure	ICD-10-PCS
0TC13ZZ	Extirpation of Matter from Left Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TC14ZZ	Extirpation of Matter from Left Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TC30ZZ	Extirpation of Matter from Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TC33ZZ	Extirpation of Matter from Right Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TC34ZZ	Extirpation of Matter from Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TC40ZZ	Extirpation of Matter from Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TC43ZZ	Extirpation of Matter from Left Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TC44ZZ	Extirpation of Matter from Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TC60ZZ	Extirpation of Matter from Right Ureter, Open Approach	Procedure	ICD-10-PCS
0TC63ZZ	Extirpation of Matter from Right Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TC64ZZ	Extirpation of Matter from Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TC70ZZ	Extirpation of Matter from Left Ureter, Open Approach	Procedure	ICD-10-PCS
0TC73ZZ	Extirpation of Matter from Left Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TC74ZZ	Extirpation of Matter from Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TCB0ZZ	Extirpation of Matter from Bladder, Open Approach	Procedure	ICD-10-PCS
0TCB3ZZ	Extirpation of Matter from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TCB4ZZ	Extirpation of Matter from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TCD0ZZ	Extirpation of Matter from Urethra, Open Approach	Procedure	ICD-10-PCS
0TCD3ZZ	Extirpation of Matter from Urethra, Percutaneous Approach	Procedure	ICD-10-PCS
0TCD4ZZ	Extirpation of Matter from Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TD00ZZ	Extraction of Right Kidney, Open Approach	Procedure	ICD-10-PCS
0TD03ZZ	Extraction of Right Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TD04ZZ	Extraction of Right Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TD10ZZ	Extraction of Left Kidney, Open Approach	Procedure	ICD-10-PCS
0TD13ZZ	Extraction of Left Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TD14ZZ	Extraction of Left Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TF30ZZ	Fragmentation in Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TF33ZZ	Fragmentation in Right Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TF34ZZ	Fragmentation in Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TF40ZZ	Fragmentation in Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TF43ZZ	Fragmentation in Left Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TF44ZZ	Fragmentation in Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TF60ZZ	Fragmentation in Right Ureter, Open Approach	Procedure	ICD-10-PCS
0TF64ZZ	Fragmentation in Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TF70ZZ	Fragmentation in Left Ureter, Open Approach	Procedure	ICD-10-PCS
0TF74ZZ	Fragmentation in Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TFB0ZZ	Fragmentation in Bladder, Open Approach	Procedure	ICD-10-PCS
0TFB4ZZ	Fragmentation in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TFD0ZZ	Fragmentation in Urethra, Open Approach	Procedure	ICD-10-PCS
0TFD4ZZ	Fragmentation in Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TH501Z	Insertion of Radioactive Element into Kidney, Open Approach	Procedure	ICD-10-PCS
0TH503Z	Insertion of Infusion Device into Kidney, Open Approach	Procedure	ICD-10-PCS
0TH50YZ	Insertion of Other Device into Kidney, Open Approach	Procedure	ICD-10-PCS
0TH541Z	Insertion of Radioactive Element into Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TH543Z	Insertion of Infusion Device into Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TH54YZ	Insertion of Other Device into Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TH58YZ	Insertion of Other Device into Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TH901Z	Insertion of Radioactive Element into Ureter, Open Approach	Procedure	ICD-10-PCS
0TH903Z	Insertion of Infusion Device into Ureter, Open Approach	Procedure	ICD-10-PCS
0TH90MZ	Insertion of Stimulator Lead into Ureter, Open Approach	Procedure	ICD-10-PCS
0TH90YZ	Insertion of Other Device into Ureter, Open Approach	Procedure	ICD-10-PCS
0TH93MZ	Insertion of Stimulator Lead into Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TH941Z	Insertion of Radioactive Element into Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TH943Z	Insertion of Infusion Device into Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TH94MZ	Insertion of Stimulator Lead into Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TH94YZ	Insertion of Other Device into Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TH97MZ	Insertion of Stimulator Lead into Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TH98MZ	Insertion of Stimulator Lead into Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TH98YZ	Insertion of Other Device into Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0THB01Z	Insertion of Radioactive Element into Bladder, Open Approach	Procedure	ICD-10-PCS
0THB03Z	Insertion of Infusion Device into Bladder, Open Approach	Procedure	ICD-10-PCS
0THB0LZ	Insertion of Artificial Sphincter into Bladder, Open Approach	Procedure	ICD-10-PCS
0THB0MZ	Insertion of Stimulator Lead into Bladder, Open Approach	Procedure	ICD-10-PCS
0THB0YZ	Insertion of Other Device into Bladder, Open Approach	Procedure	ICD-10-PCS
0THB3LZ	Insertion of Artificial Sphincter into Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0THB3MZ	Insertion of Stimulator Lead into Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0THB41Z	Insertion of Radioactive Element into Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0THB43Z	Insertion of Infusion Device into Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0THB4LZ	Insertion of Artificial Sphincter into Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0THB4MZ	Insertion of Stimulator Lead into Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0THB4YZ	Insertion of Other Device into Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0THB7LZ	Insertion of Artificial Sphincter into Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0THB7MZ	Insertion of Stimulator Lead into Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0THB8LZ	Insertion of Artificial Sphincter into Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0THB8MZ	Insertion of Stimulator Lead into Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0THB8YZ	Insertion of Other Device into Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0THD01Z	Insertion of Radioactive Element into Urethra, Open Approach	Procedure	ICD-10-PCS
0THD03Z	Insertion of Infusion Device into Urethra, Open Approach	Procedure	ICD-10-PCS
0THD0LZ	Insertion of Artificial Sphincter into Urethra, Open Approach	Procedure	ICD-10-PCS
0THD0YZ	Insertion of Other Device into Urethra, Open Approach	Procedure	ICD-10-PCS
0THD3LZ	Insertion of Artificial Sphincter into Urethra, Percutaneous Approach	Procedure	ICD-10-PCS
0THD41Z	Insertion of Radioactive Element into Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0THD43Z	Insertion of Infusion Device into Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0THD4LZ	Insertion of Artificial Sphincter into Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0THD4YZ	Insertion of Other Device into Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0THD7LZ	Insertion of Artificial Sphincter into Urethra, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0THD8LZ	Insertion of Artificial Sphincter into Urethra, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0THDXLZ	Insertion of Artificial Sphincter into Urethra, External Approach	Procedure	ICD-10-PCS
0TL30CZ	Occlusion of Right Kidney Pelvis with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TL30DZ	Occlusion of Right Kidney Pelvis with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TL30ZZ	Occlusion of Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TL33CZ	Occlusion of Right Kidney Pelvis with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TL33DZ	Occlusion of Right Kidney Pelvis with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TL33ZZ	Occlusion of Right Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TL34CZ	Occlusion of Right Kidney Pelvis with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL34DZ	Occlusion of Right Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL34ZZ	Occlusion of Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL37DZ	Occlusion of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TL37ZZ	Occlusion of Right Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TL38DZ	Occlusion of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TL38ZZ	Occlusion of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TL40CZ	Occlusion of Left Kidney Pelvis with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TL40DZ	Occlusion of Left Kidney Pelvis with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TL40ZZ	Occlusion of Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TL43CZ	Occlusion of Left Kidney Pelvis with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TL43DZ	Occlusion of Left Kidney Pelvis with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TL43ZZ	Occlusion of Left Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TL44CZ	Occlusion of Left Kidney Pelvis with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL44DZ	Occlusion of Left Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL44ZZ	Occlusion of Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL47DZ	Occlusion of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TL47ZZ	Occlusion of Left Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TL48DZ	Occlusion of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TL48ZZ	Occlusion of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TL60CZ	Occlusion of Right Ureter with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TL60DZ	Occlusion of Right Ureter with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TL60ZZ	Occlusion of Right Ureter, Open Approach	Procedure	ICD-10-PCS
0TL63CZ	Occlusion of Right Ureter with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TL63DZ	Occlusion of Right Ureter with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TL63ZZ	Occlusion of Right Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TL64CZ	Occlusion of Right Ureter with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL64DZ	Occlusion of Right Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL64ZZ	Occlusion of Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL67DZ	Occlusion of Right Ureter with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TL67ZZ	Occlusion of Right Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TL68DZ	Occlusion of Right Ureter with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TL68ZZ	Occlusion of Right Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TL70CZ	Occlusion of Left Ureter with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TL70DZ	Occlusion of Left Ureter with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TL70ZZ	Occlusion of Left Ureter, Open Approach	Procedure	ICD-10-PCS
0TL73CZ	Occlusion of Left Ureter with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TL73DZ	Occlusion of Left Ureter with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TL73ZZ	Occlusion of Left Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TL74CZ	Occlusion of Left Ureter with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL74DZ	Occlusion of Left Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TL74ZZ	Occlusion of Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TL77DZ	Occlusion of Left Ureter with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TL77ZZ	Occlusion of Left Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TL78DZ	Occlusion of Left Ureter with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TL78ZZ	Occlusion of Left Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TLB0CZ	Occlusion of Bladder with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TLB0DZ	Occlusion of Bladder with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TLB0ZZ	Occlusion of Bladder, Open Approach	Procedure	ICD-10-PCS
0TLB3CZ	Occlusion of Bladder with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TLB3DZ	Occlusion of Bladder with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TLB3ZZ	Occlusion of Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TLB4CZ	Occlusion of Bladder with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TLB4DZ	Occlusion of Bladder with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TLB4ZZ	Occlusion of Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TLB7DZ	Occlusion of Bladder with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TLB7ZZ	Occlusion of Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TLB8DZ	Occlusion of Bladder with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TLB8ZZ	Occlusion of Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TLD0CZ	Occlusion of Urethra with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TLD0DZ	Occlusion of Urethra with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TLD0ZZ	Occlusion of Urethra, Open Approach	Procedure	ICD-10-PCS
0TLD3CZ	Occlusion of Urethra with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TLD3DZ	Occlusion of Urethra with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TLD3ZZ	Occlusion of Urethra, Percutaneous Approach	Procedure	ICD-10-PCS
0TLD4CZ	Occlusion of Urethra with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TLD4DZ	Occlusion of Urethra with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TLD4ZZ	Occlusion of Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TLD7DZ	Occlusion of Urethra with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TLD7ZZ	Occlusion of Urethra, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TLD8DZ	Occlusion of Urethra with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TLD8ZZ	Occlusion of Urethra, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TLDXCZ	Occlusion of Urethra with Extraluminal Device, External Approach	Procedure	ICD-10-PCS
0TLDXDZ	Occlusion of Urethra with Intraluminal Device, External Approach	Procedure	ICD-10-PCS
0TLDXZZ	Occlusion of Urethra, External Approach	Procedure	ICD-10-PCS
0TM00ZZ	Reattachment of Right Kidney, Open Approach	Procedure	ICD-10-PCS
0TM04ZZ	Reattachment of Right Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TM10ZZ	Reattachment of Left Kidney, Open Approach	Procedure	ICD-10-PCS
0TM14ZZ	Reattachment of Left Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TM20ZZ	Reattachment of Bilateral Kidneys, Open Approach	Procedure	ICD-10-PCS
0TM24ZZ	Reattachment of Bilateral Kidneys, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TM30ZZ	Reattachment of Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TM34ZZ	Reattachment of Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TM40ZZ	Reattachment of Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TM44ZZ	Reattachment of Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TM60ZZ	Reattachment of Right Ureter, Open Approach	Procedure	ICD-10-PCS
0TM64ZZ	Reattachment of Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TM70ZZ	Reattachment of Left Ureter, Open Approach	Procedure	ICD-10-PCS
0TM74ZZ	Reattachment of Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TM80ZZ	Reattachment of Bilateral Ureters, Open Approach	Procedure	ICD-10-PCS
0TM84ZZ	Reattachment of Bilateral Ureters, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TMB0ZZ	Reattachment of Bladder, Open Approach	Procedure	ICD-10-PCS
0TMB4ZZ	Reattachment of Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TMD0ZZ	Reattachment of Urethra, Open Approach	Procedure	ICD-10-PCS
0TMD4ZZ	Reattachment of Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TN00ZZ	Release Right Kidney, Open Approach	Procedure	ICD-10-PCS
0TN03ZZ	Release Right Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TN04ZZ	Release Right Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TN07ZZ	Release Right Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TN08ZZ	Release Right Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TN10ZZ	Release Left Kidney, Open Approach	Procedure	ICD-10-PCS
0TN13ZZ	Release Left Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TN14ZZ	Release Left Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TN17ZZ	Release Left Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TN18ZZ	Release Left Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TN30ZZ	Release Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TN33ZZ	Release Right Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TN34ZZ	Release Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TN37ZZ	Release Right Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TN38ZZ	Release Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TN40ZZ	Release Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TN43ZZ	Release Left Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TN44ZZ	Release Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TN47ZZ	Release Left Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TN48ZZ	Release Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TN60ZZ	Release Right Ureter, Open Approach	Procedure	ICD-10-PCS
0TN63ZZ	Release Right Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TN64ZZ	Release Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TN67ZZ	Release Right Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TN68ZZ	Release Right Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TN70ZZ	Release Left Ureter, Open Approach	Procedure	ICD-10-PCS
0TN73ZZ	Release Left Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TN74ZZ	Release Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TN77ZZ	Release Left Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TN78ZZ	Release Left Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TNB0ZZ	Release Bladder, Open Approach	Procedure	ICD-10-PCS
0TNB3ZZ	Release Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TNB4ZZ	Release Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TNB7ZZ	Release Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TNB8ZZ	Release Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TND0ZZ	Release Urethra, Open Approach	Procedure	ICD-10-PCS
0TND3ZZ	Release Urethra, Percutaneous Approach	Procedure	ICD-10-PCS
0TND4ZZ	Release Urethra, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TND7ZZ	Release Urethra, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TND8ZZ	Release Urethra, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TNDXZZ	Release Urethra, External Approach	Procedure	ICD-10-PCS
0TP500Z	Removal of Drainage Device from Kidney, Open Approach	Procedure	ICD-10-PCS
0TP502Z	Removal of Monitoring Device from Kidney, Open Approach	Procedure	ICD-10-PCS
0TP503Z	Removal of Infusion Device from Kidney, Open Approach	Procedure	ICD-10-PCS
0TP507Z	Removal of Autologous Tissue Substitute from Kidney, Open Approach	Procedure	ICD-10-PCS
0TP50CZ	Removal of Extraluminal Device from Kidney, Open Approach	Procedure	ICD-10-PCS
0TP50DZ	Removal of Intraluminal Device from Kidney, Open Approach	Procedure	ICD-10-PCS
0TP50JZ	Removal of Synthetic Substitute from Kidney, Open Approach	Procedure	ICD-10-PCS
0TP50KZ	Removal of Nonautologous Tissue Substitute from Kidney, Open Approach	Procedure	ICD-10-PCS
0TP50YZ	Removal of Other Device from Kidney, Open Approach	Procedure	ICD-10-PCS
0TP530Z	Removal of Drainage Device from Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TP532Z	Removal of Monitoring Device from Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TP533Z	Removal of Infusion Device from Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TP537Z	Removal of Autologous Tissue Substitute from Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TP53CZ	Removal of Extraluminal Device from Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TP53DZ	Removal of Intraluminal Device from Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TP53JZ	Removal of Synthetic Substitute from Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TP53KZ	Removal of Nonautologous Tissue Substitute from Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TP540Z	Removal of Drainage Device from Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP542Z	Removal of Monitoring Device from Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP543Z	Removal of Infusion Device from Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP547Z	Removal of Autologous Tissue Substitute from Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP54CZ	Removal of Extraluminal Device from Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP54DZ	Removal of Intraluminal Device from Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP54JZ	Removal of Synthetic Substitute from Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP54KZ	Removal of Nonautologous Tissue Substitute from Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP54YZ	Removal of Other Device from Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TP577Z	Removal of Autologous Tissue Substitute from Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TP57CZ	Removal of Extraluminal Device from Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TP57JZ	Removal of Synthetic Substitute from Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TP57KZ	Removal of Nonautologous Tissue Substitute from Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TP587Z	Removal of Autologous Tissue Substitute from Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP58CZ	Removal of Extraluminal Device from Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP58JZ	Removal of Synthetic Substitute from Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP58KZ	Removal of Nonautologous Tissue Substitute from Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP58YZ	Removal of Other Device from Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP900Z	Removal of Drainage Device from Ureter, Open Approach	Procedure	ICD-10-PCS
0TP902Z	Removal of Monitoring Device from Ureter, Open Approach	Procedure	ICD-10-PCS
0TP903Z	Removal of Infusion Device from Ureter, Open Approach	Procedure	ICD-10-PCS
0TP907Z	Removal of Autologous Tissue Substitute from Ureter, Open Approach	Procedure	ICD-10-PCS
0TP90CZ	Removal of Extraluminal Device from Ureter, Open Approach	Procedure	ICD-10-PCS
0TP90DZ	Removal of Intraluminal Device from Ureter, Open Approach	Procedure	ICD-10-PCS
0TP90JZ	Removal of Synthetic Substitute from Ureter, Open Approach	Procedure	ICD-10-PCS
0TP90KZ	Removal of Nonautologous Tissue Substitute from Ureter, Open Approach	Procedure	ICD-10-PCS
0TP90MZ	Removal of Stimulator Lead from Ureter, Open Approach	Procedure	ICD-10-PCS
0TP90YZ	Removal of Other Device from Ureter, Open Approach	Procedure	ICD-10-PCS
0TP930Z	Removal of Drainage Device from Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TP932Z	Removal of Monitoring Device from Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TP933Z	Removal of Infusion Device from Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TP937Z	Removal of Autologous Tissue Substitute from Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TP93CZ	Removal of Extraluminal Device from Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TP93DZ	Removal of Intraluminal Device from Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TP93JZ	Removal of Synthetic Substitute from Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TP93KZ	Removal of Nonautologous Tissue Substitute from Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TP93MZ	Removal of Stimulator Lead from Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TP940Z	Removal of Drainage Device from Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP942Z	Removal of Monitoring Device from Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP943Z	Removal of Infusion Device from Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP947Z	Removal of Autologous Tissue Substitute from Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP94CZ	Removal of Extraluminal Device from Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP94DZ	Removal of Intraluminal Device from Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TP94JZ	Removal of Synthetic Substitute from Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP94KZ	Removal of Nonautologous Tissue Substitute from Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP94MZ	Removal of Stimulator Lead from Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP94YZ	Removal of Other Device from Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TP977Z	Removal of Autologous Tissue Substitute from Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TP97CZ	Removal of Extraluminal Device from Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TP97JZ	Removal of Synthetic Substitute from Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TP97KZ	Removal of Nonautologous Tissue Substitute from Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TP97MZ	Removal of Stimulator Lead from Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TP987Z	Removal of Autologous Tissue Substitute from Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP98CZ	Removal of Extraluminal Device from Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP98JZ	Removal of Synthetic Substitute from Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP98KZ	Removal of Nonautologous Tissue Substitute from Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP98MZ	Removal of Stimulator Lead from Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP98YZ	Removal of Other Device from Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TP9XMZ	Removal of Stimulator Lead from Ureter, External Approach	Procedure	ICD-10-PCS
0TPB00Z	Removal of Drainage Device from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB02Z	Removal of Monitoring Device from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB03Z	Removal of Infusion Device from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB07Z	Removal of Autologous Tissue Substitute from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB0CZ	Removal of Extraluminal Device from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB0DZ	Removal of Intraluminal Device from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB0JZ	Removal of Synthetic Substitute from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB0KZ	Removal of Nonautologous Tissue Substitute from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB0LZ	Removal of Artificial Sphincter from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB0MZ	Removal of Stimulator Lead from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB0YZ	Removal of Other Device from Bladder, Open Approach	Procedure	ICD-10-PCS
0TPB30Z	Removal of Drainage Device from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TPB32Z	Removal of Monitoring Device from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TPB33Z	Removal of Infusion Device from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TPB37Z	Removal of Autologous Tissue Substitute from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TPB3CZ	Removal of Extraluminal Device from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TPB3DZ	Removal of Intraluminal Device from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TPB3JZ	Removal of Synthetic Substitute from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TPB3KZ	Removal of Nonautologous Tissue Substitute from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TPB3LZ	Removal of Artificial Sphincter from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TPB3MZ	Removal of Stimulator Lead from Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TPB40Z	Removal of Drainage Device from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB42Z	Removal of Monitoring Device from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB43Z	Removal of Infusion Device from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB47Z	Removal of Autologous Tissue Substitute from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB4CZ	Removal of Extraluminal Device from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB4DZ	Removal of Intraluminal Device from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB4JZ	Removal of Synthetic Substitute from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB4KZ	Removal of Nonautologous Tissue Substitute from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB4LZ	Removal of Artificial Sphincter from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB4MZ	Removal of Stimulator Lead from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB4YZ	Removal of Other Device from Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TPB77Z	Removal of Autologous Tissue Substitute from Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TPB7CZ	Removal of Extraluminal Device from Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TPB7JZ	Removal of Synthetic Substitute from Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TPB7KZ	Removal of Nonautologous Tissue Substitute from Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TPB7LZ	Removal of Artificial Sphincter from Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TPB7MZ	Removal of Stimulator Lead from Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TPB87Z	Removal of Autologous Tissue Substitute from Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TPB8CZ	Removal of Extraluminal Device from Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TPB8JZ	Removal of Synthetic Substitute from Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TPB8KZ	Removal of Nonautologous Tissue Substitute from Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TPB8LZ	Removal of Artificial Sphincter from Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TPB8MZ	Removal of Stimulator Lead from Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TPB8YZ	Removal of Other Device from Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TPBXMZ	Removal of Stimulator Lead from Bladder, External Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TQ00ZZ	Repair Right Kidney, Open Approach	Procedure	ICD-10-PCS
0TQ03ZZ	Repair Right Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TQ04ZZ	Repair Right Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TQ07ZZ	Repair Right Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TQ08ZZ	Repair Right Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TQ10ZZ	Repair Left Kidney, Open Approach	Procedure	ICD-10-PCS
0TQ13ZZ	Repair Left Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TQ14ZZ	Repair Left Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TQ17ZZ	Repair Left Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TQ18ZZ	Repair Left Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TQ30ZZ	Repair Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TQ33ZZ	Repair Right Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TQ34ZZ	Repair Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TQ37ZZ	Repair Right Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TQ38ZZ	Repair Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TQ40ZZ	Repair Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TQ43ZZ	Repair Left Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TQ44ZZ	Repair Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TQ47ZZ	Repair Left Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TQ48ZZ	Repair Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TQ60ZZ	Repair Right Ureter, Open Approach	Procedure	ICD-10-PCS
0TQ63ZZ	Repair Right Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TQ64ZZ	Repair Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TQ67ZZ	Repair Right Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TQ68ZZ	Repair Right Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TQ70ZZ	Repair Left Ureter, Open Approach	Procedure	ICD-10-PCS
0TQ73ZZ	Repair Left Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TQ74ZZ	Repair Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TQ77ZZ	Repair Left Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TQ78ZZ	Repair Left Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TQB0ZZ	Repair Bladder, Open Approach	Procedure	ICD-10-PCS
0TQB3ZZ	Repair Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TQB4ZZ	Repair Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TQB7ZZ	Repair Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TQB8ZZ	Repair Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR307Z	Replacement of Right Kidney Pelvis with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TR30JZ	Replacement of Right Kidney Pelvis with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0TR30KZ	Replacement of Right Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TR347Z	Replacement of Right Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TR34JZ	Replacement of Right Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TR34KZ	Replacement of Right Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TR377Z	Replacement of Right Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR37JZ	Replacement of Right Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR37KZ	Replacement of Right Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR387Z	Replacement of Right Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR38JZ	Replacement of Right Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR38KZ	Replacement of Right Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR407Z	Replacement of Left Kidney Pelvis with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TR40JZ	Replacement of Left Kidney Pelvis with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0TR40KZ	Replacement of Left Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TR447Z	Replacement of Left Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TR44JZ	Replacement of Left Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TR44KZ	Replacement of Left Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TR477Z	Replacement of Left Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR47JZ	Replacement of Left Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR47KZ	Replacement of Left Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR487Z	Replacement of Left Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR48JZ	Replacement of Left Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR48KZ	Replacement of Left Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR607Z	Replacement of Right Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TR60JZ	Replacement of Right Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0TR60KZ	Replacement of Right Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TR647Z	Replacement of Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TR64JZ	Replacement of Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TR64KZ	Replacement of Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TR677Z	Replacement of Right Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR67JZ	Replacement of Right Ureter with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR67KZ	Replacement of Right Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR687Z	Replacement of Right Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR68JZ	Replacement of Right Ureter with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR68KZ	Replacement of Right Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR707Z	Replacement of Left Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TR70JZ	Replacement of Left Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0TR70KZ	Replacement of Left Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TR747Z	Replacement of Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TR74JZ	Replacement of Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TR74KZ	Replacement of Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TR777Z	Replacement of Left Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR77JZ	Replacement of Left Ureter with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR77KZ	Replacement of Left Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TR787Z	Replacement of Left Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR78JZ	Replacement of Left Ureter with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TR78KZ	Replacement of Left Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TRB07Z	Replacement of Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TRB0JZ	Replacement of Bladder with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0TRB0KZ	Replacement of Bladder with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TRB47Z	Replacement of Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TRB4JZ	Replacement of Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TRB4KZ	Replacement of Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TRB77Z	Replacement of Bladder with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TRB7JZ	Replacement of Bladder with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TRB7KZ	Replacement of Bladder with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TRB87Z	Replacement of Bladder with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TRB8JZ	Replacement of Bladder with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TRB8KZ	Replacement of Bladder with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TS00ZZ	Reposition Right Kidney, Open Approach	Procedure	ICD-10-PCS
0TS04ZZ	Reposition Right Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TS10ZZ	Reposition Left Kidney, Open Approach	Procedure	ICD-10-PCS
0TS14ZZ	Reposition Left Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TS20ZZ	Reposition Bilateral Kidneys, Open Approach	Procedure	ICD-10-PCS
0TS24ZZ	Reposition Bilateral Kidneys, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TS30ZZ	Reposition Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TS34ZZ	Reposition Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TS40ZZ	Reposition Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TS44ZZ	Reposition Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TS60ZZ	Reposition Right Ureter, Open Approach	Procedure	ICD-10-PCS
0TS64ZZ	Reposition Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TS70ZZ	Reposition Left Ureter, Open Approach	Procedure	ICD-10-PCS
0TS74ZZ	Reposition Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TS80ZZ	Reposition Bilateral Ureters, Open Approach	Procedure	ICD-10-PCS
0TS84ZZ	Reposition Bilateral Ureters, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TSB0ZZ	Reposition Bladder, Open Approach	Procedure	ICD-10-PCS
0TSB4ZZ	Reposition Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TT00ZZ	Resection of Right Kidney, Open Approach	Procedure	ICD-10-PCS
0TT04ZG	Resection of right kidney, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0TT04ZZ	Resection of Right Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TT10ZZ	Resection of Left Kidney, Open Approach	Procedure	ICD-10-PCS
0TT14ZG	Resection of left kidney, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0TT14ZZ	Resection of Left Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TT20ZZ	Resection of Bilateral Kidneys, Open Approach	Procedure	ICD-10-PCS
0TT24ZG	Resection of bilateral kidneys, percutaneous endoscopic approach, hand-assisted	Procedure	ICD-10-PCS
0TT24ZZ	Resection of Bilateral Kidneys, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TT30ZZ	Resection of Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TT34ZZ	Resection of Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TT37ZZ	Resection of Right Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TT38ZZ	Resection of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TT40ZZ	Resection of Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TT44ZZ	Resection of Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TT47ZZ	Resection of Left Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TT48ZZ	Resection of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TT60ZZ	Resection of Right Ureter, Open Approach	Procedure	ICD-10-PCS
0TT64ZZ	Resection of Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TT67ZZ	Resection of Right Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TT68ZZ	Resection of Right Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TT70ZZ	Resection of Left Ureter, Open Approach	Procedure	ICD-10-PCS
0TT74ZZ	Resection of Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TT77ZZ	Resection of Left Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TT78ZZ	Resection of Left Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TTB0ZZ	Resection of Bladder, Open Approach	Procedure	ICD-10-PCS
0TTB4ZZ	Resection of Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TTB7ZZ	Resection of Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TTB8ZZ	Resection of Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU307Z	Supplement Right Kidney Pelvis with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TU30JZ	Supplement Right Kidney Pelvis with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0TU30KZ	Supplement Right Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TU347Z	Supplement Right Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TU34JZ	Supplement Right Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TU34KZ	Supplement Right Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TU377Z	Supplement Right Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU37JZ	Supplement Right Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU37KZ	Supplement Right Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU387Z	Supplement Right Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU38JZ	Supplement Right Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU38KZ	Supplement Right Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU407Z	Supplement Left Kidney Pelvis with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TU40JZ	Supplement Left Kidney Pelvis with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0TU40KZ	Supplement Left Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TU447Z	Supplement Left Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TU44JZ	Supplement Left Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TU44KZ	Supplement Left Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TU477Z	Supplement Left Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU47JZ	Supplement Left Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU47KZ	Supplement Left Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU487Z	Supplement Left Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU48JZ	Supplement Left Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU48KZ	Supplement Left Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU607Z	Supplement Right Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TU60JZ	Supplement Right Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0TU60KZ	Supplement Right Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TU647Z	Supplement Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TU64JZ	Supplement Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TU64KZ	Supplement Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TU677Z	Supplement Right Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU67JZ	Supplement Right Ureter with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU67KZ	Supplement Right Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU687Z	Supplement Right Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU68JZ	Supplement Right Ureter with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU68KZ	Supplement Right Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU707Z	Supplement Left Ureter with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TU70JZ	Supplement Left Ureter with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0TU70KZ	Supplement Left Ureter with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TU747Z	Supplement Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TU74JZ	Supplement Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TU74KZ	Supplement Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TU777Z	Supplement Left Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU77JZ	Supplement Left Ureter with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU77KZ	Supplement Left Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TU787Z	Supplement Left Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU78JZ	Supplement Left Ureter with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TU78KZ	Supplement Left Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TUB07Z	Supplement Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TUB0JZ	Supplement Bladder with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0TUB0KZ	Supplement Bladder with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0TUB47Z	Supplement Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TUB4JZ	Supplement Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TUB4KZ	Supplement Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TUB77Z	Supplement Bladder with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TUB7JZ	Supplement Bladder with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TUB7KZ	Supplement Bladder with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TUB87Z	Supplement Bladder with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TUB8JZ	Supplement Bladder with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TUB8KZ	Supplement Bladder with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TV30CZ	Restriction of Right Kidney Pelvis with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TV30DZ	Restriction of Right Kidney Pelvis with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TV30ZZ	Restriction of Right Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TV33CZ	Restriction of Right Kidney Pelvis with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TV33DZ	Restriction of Right Kidney Pelvis with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TV33ZZ	Restriction of Right Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TV34CZ	Restriction of Right Kidney Pelvis with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TV34DZ	Restriction of Right Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV34ZZ	Restriction of Right Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV37DZ	Restriction of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TV37ZZ	Restriction of Right Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TV38DZ	Restriction of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TV38ZZ	Restriction of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TV40CZ	Restriction of Left Kidney Pelvis with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TV40DZ	Restriction of Left Kidney Pelvis with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TV40ZZ	Restriction of Left Kidney Pelvis, Open Approach	Procedure	ICD-10-PCS
0TV43CZ	Restriction of Left Kidney Pelvis with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TV43DZ	Restriction of Left Kidney Pelvis with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TV43ZZ	Restriction of Left Kidney Pelvis, Percutaneous Approach	Procedure	ICD-10-PCS
0TV44CZ	Restriction of Left Kidney Pelvis with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV44DZ	Restriction of Left Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV44ZZ	Restriction of Left Kidney Pelvis, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV47DZ	Restriction of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TV47ZZ	Restriction of Left Kidney Pelvis, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TV48DZ	Restriction of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TV48ZZ	Restriction of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TV60CZ	Restriction of Right Ureter with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TV60DZ	Restriction of Right Ureter with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TV60ZZ	Restriction of Right Ureter, Open Approach	Procedure	ICD-10-PCS
0TV63CZ	Restriction of Right Ureter with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TV63DZ	Restriction of Right Ureter with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TV63ZZ	Restriction of Right Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TV64CZ	Restriction of Right Ureter with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV64DZ	Restriction of Right Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV64ZZ	Restriction of Right Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV67DZ	Restriction of Right Ureter with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TV67ZZ	Restriction of Right Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TV68DZ	Restriction of Right Ureter with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TV68ZZ	Restriction of Right Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TV70CZ	Restriction of Left Ureter with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TV70DZ	Restriction of Left Ureter with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TV70ZZ	Restriction of Left Ureter, Open Approach	Procedure	ICD-10-PCS
0TV73CZ	Restriction of Left Ureter with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TV73DZ	Restriction of Left Ureter with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TV73ZZ	Restriction of Left Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TV74CZ	Restriction of Left Ureter with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV74DZ	Restriction of Left Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV74ZZ	Restriction of Left Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TV77DZ	Restriction of Left Ureter with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TV77ZZ	Restriction of Left Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TV78DZ	Restriction of Left Ureter with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TV78ZZ	Restriction of Left Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TVB0CZ	Restriction of Bladder with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TVB0DZ	Restriction of Bladder with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0TVB0ZZ	Restriction of Bladder, Open Approach	Procedure	ICD-10-PCS
0TVB3CZ	Restriction of Bladder with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TVB3DZ	Restriction of Bladder with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0TVB3ZZ	Restriction of Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TVB4CZ	Restriction of Bladder with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TVB4DZ	Restriction of Bladder with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TVB4ZZ	Restriction of Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TVB7DZ	Restriction of Bladder with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TVB7ZZ	Restriction of Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TVB8DZ	Restriction of Bladder with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TVB8ZZ	Restriction of Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW500Z	Revision of Drainage Device in Kidney, Open Approach	Procedure	ICD-10-PCS
0TW502Z	Revision of Monitoring Device in Kidney, Open Approach	Procedure	ICD-10-PCS
0TW503Z	Revision of Infusion Device in Kidney, Open Approach	Procedure	ICD-10-PCS
0TW507Z	Revision of Autologous Tissue Substitute in Kidney, Open Approach	Procedure	ICD-10-PCS
0TW50CZ	Revision of Extraluminal Device in Kidney, Open Approach	Procedure	ICD-10-PCS
0TW50DZ	Revision of Intraluminal Device in Kidney, Open Approach	Procedure	ICD-10-PCS
0TW50JZ	Revision of Synthetic Substitute in Kidney, Open Approach	Procedure	ICD-10-PCS
0TW50KZ	Revision of Nonautologous Tissue Substitute in Kidney, Open Approach	Procedure	ICD-10-PCS
0TW50YZ	Revision of Other Device in Kidney, Open Approach	Procedure	ICD-10-PCS
0TW530Z	Revision of Drainage Device in Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TW532Z	Revision of Monitoring Device in Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TW533Z	Revision of Infusion Device in Kidney, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TW537Z	Revision of Autologous Tissue Substitute in Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TW53CZ	Revision of Extraluminal Device in Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TW53DZ	Revision of Intraluminal Device in Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TW53JZ	Revision of Synthetic Substitute in Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TW53KZ	Revision of Nonautologous Tissue Substitute in Kidney, Percutaneous Approach	Procedure	ICD-10-PCS
0TW540Z	Revision of Drainage Device in Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW542Z	Revision of Monitoring Device in Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW543Z	Revision of Infusion Device in Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW547Z	Revision of Autologous Tissue Substitute in Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW54CZ	Revision of Extraluminal Device in Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW54DZ	Revision of Intraluminal Device in Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW54JZ	Revision of Synthetic Substitute in Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW54KZ	Revision of Nonautologous Tissue Substitute in Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW54YZ	Revision of Other Device in Kidney, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW570Z	Revision of Drainage Device in Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW572Z	Revision of Monitoring Device in Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW573Z	Revision of Infusion Device in Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW577Z	Revision of Autologous Tissue Substitute in Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW57CZ	Revision of Extraluminal Device in Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW57DZ	Revision of Intraluminal Device in Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW57JZ	Revision of Synthetic Substitute in Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW57KZ	Revision of Nonautologous Tissue Substitute in Kidney, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW580Z	Revision of Drainage Device in Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW582Z	Revision of Monitoring Device in Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW583Z	Revision of Infusion Device in Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW587Z	Revision of Autologous Tissue Substitute in Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW58CZ	Revision of Extraluminal Device in Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW58DZ	Revision of Intraluminal Device in Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW58JZ	Revision of Synthetic Substitute in Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW58KZ	Revision of Nonautologous Tissue Substitute in Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW58YZ	Revision of Other Device in Kidney, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW900Z	Revision of Drainage Device in Ureter, Open Approach	Procedure	ICD-10-PCS
0TW902Z	Revision of Monitoring Device in Ureter, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TW903Z	Revision of Infusion Device in Ureter, Open Approach	Procedure	ICD-10-PCS
0TW907Z	Revision of Autologous Tissue Substitute in Ureter, Open Approach	Procedure	ICD-10-PCS
0TW90CZ	Revision of Extraluminal Device in Ureter, Open Approach	Procedure	ICD-10-PCS
0TW90DZ	Revision of Intraluminal Device in Ureter, Open Approach	Procedure	ICD-10-PCS
0TW90JZ	Revision of Synthetic Substitute in Ureter, Open Approach	Procedure	ICD-10-PCS
0TW90KZ	Revision of Nonautologous Tissue Substitute in Ureter, Open Approach	Procedure	ICD-10-PCS
0TW90MZ	Revision of Stimulator Lead in Ureter, Open Approach	Procedure	ICD-10-PCS
0TW90YZ	Revision of Other Device in Ureter, Open Approach	Procedure	ICD-10-PCS
0TW930Z	Revision of Drainage Device in Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TW932Z	Revision of Monitoring Device in Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TW933Z	Revision of Infusion Device in Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TW937Z	Revision of Autologous Tissue Substitute in Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TW93CZ	Revision of Extraluminal Device in Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TW93DZ	Revision of Intraluminal Device in Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TW93JZ	Revision of Synthetic Substitute in Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TW93KZ	Revision of Nonautologous Tissue Substitute in Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TW93MZ	Revision of Stimulator Lead in Ureter, Percutaneous Approach	Procedure	ICD-10-PCS
0TW940Z	Revision of Drainage Device in Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW942Z	Revision of Monitoring Device in Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW943Z	Revision of Infusion Device in Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW947Z	Revision of Autologous Tissue Substitute in Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW94CZ	Revision of Extraluminal Device in Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW94DZ	Revision of Intraluminal Device in Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW94JZ	Revision of Synthetic Substitute in Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW94KZ	Revision of Nonautologous Tissue Substitute in Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW94MZ	Revision of Stimulator Lead in Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW94YZ	Revision of Other Device in Ureter, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TW970Z	Revision of Drainage Device in Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW972Z	Revision of Monitoring Device in Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW973Z	Revision of Infusion Device in Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW977Z	Revision of Autologous Tissue Substitute in Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW97CZ	Revision of Extraluminal Device in Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW97DZ	Revision of Intraluminal Device in Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW97JZ	Revision of Synthetic Substitute in Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW97KZ	Revision of Nonautologous Tissue Substitute in Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW97MZ	Revision of Stimulator Lead in Ureter, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TW980Z	Revision of Drainage Device in Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW982Z	Revision of Monitoring Device in Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TW983Z	Revision of Infusion Device in Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW987Z	Revision of Autologous Tissue Substitute in Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW98CZ	Revision of Extraluminal Device in Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW98DZ	Revision of Intraluminal Device in Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW98JZ	Revision of Synthetic Substitute in Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW98KZ	Revision of Nonautologous Tissue Substitute in Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW98MZ	Revision of Stimulator Lead in Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TW98YZ	Revision of Other Device in Ureter, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TWB00Z	Revision of Drainage Device in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB02Z	Revision of Monitoring Device in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB03Z	Revision of Infusion Device in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB07Z	Revision of Autologous Tissue Substitute in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB0CZ	Revision of Extraluminal Device in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB0DZ	Revision of Intraluminal Device in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB0JZ	Revision of Synthetic Substitute in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB0KZ	Revision of Nonautologous Tissue Substitute in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB0LZ	Revision of Artificial Sphincter in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB0MZ	Revision of Stimulator Lead in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB0YZ	Revision of Other Device in Bladder, Open Approach	Procedure	ICD-10-PCS
0TWB30Z	Revision of Drainage Device in Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TWB32Z	Revision of Monitoring Device in Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TWB33Z	Revision of Infusion Device in Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TWB37Z	Revision of Autologous Tissue Substitute in Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TWB3CZ	Revision of Extraluminal Device in Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TWB3DZ	Revision of Intraluminal Device in Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TWB3JZ	Revision of Synthetic Substitute in Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TWB3KZ	Revision of Nonautologous Tissue Substitute in Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TWB3LZ	Revision of Artificial Sphincter in Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TWB3MZ	Revision of Stimulator Lead in Bladder, Percutaneous Approach	Procedure	ICD-10-PCS
0TWB40Z	Revision of Drainage Device in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TWB42Z	Revision of Monitoring Device in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TWB43Z	Revision of Infusion Device in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TWB47Z	Revision of Autologous Tissue Substitute in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TWB4CZ	Revision of Extraluminal Device in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TWB4DZ	Revision of Intraluminal Device in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TWB4JZ	Revision of Synthetic Substitute in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0TWB4KZ	Revision of Nonautologous Tissue Substitute in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TWB4LZ	Revision of Artificial Sphincter in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TWB4MZ	Revision of Stimulator Lead in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TWB4YZ	Revision of Other Device in Bladder, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0TWB77Z	Revision of Autologous Tissue Substitute in Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TWB7CZ	Revision of Extraluminal Device in Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TWB7DZ	Revision of Intraluminal Device in Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TWB7JZ	Revision of Synthetic Substitute in Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TWB7KZ	Revision of Nonautologous Tissue Substitute in Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TWB7LZ	Revision of Artificial Sphincter in Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TWB7MZ	Revision of Stimulator Lead in Bladder, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0TWB87Z	Revision of Autologous Tissue Substitute in Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TWB8CZ	Revision of Extraluminal Device in Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TWB8DZ	Revision of Intraluminal Device in Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TWB8JZ	Revision of Synthetic Substitute in Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TWB8KZ	Revision of Nonautologous Tissue Substitute in Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TWB8LZ	Revision of Artificial Sphincter in Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TWB8MZ	Revision of Stimulator Lead in Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TWB8YZ	Revision of Other Device in Bladder, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0TY00Z0	Transplantation of Right Kidney, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0TY00Z1	Transplantation of Right Kidney, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0TY00Z2	Transplantation of Right Kidney, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0TY10Z0	Transplantation of Left Kidney, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0TY10Z1	Transplantation of Left Kidney, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0TY10Z2	Transplantation of Left Kidney, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0U15075	Bypass Right Fallopian Tube to Right Fallopian Tube with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U15076	Bypass Right Fallopian Tube to Left Fallopian Tube with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U15079	Bypass Right Fallopian Tube to Uterus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U150J5	Bypass Right Fallopian Tube to Right Fallopian Tube with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0U150J6	Bypass Right Fallopian Tube to Left Fallopian Tube with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0U150J9	Bypass Right Fallopian Tube to Uterus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0U150K5	Bypass Right Fallopian Tube to Right Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U150K6	Bypass Right Fallopian Tube to Left Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U150K9	Bypass Right Fallopian Tube to Uterus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U150Z5	Bypass Right Fallopian Tube to Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0U150Z6	Bypass Right Fallopian Tube to Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0U150Z9	Bypass Right Fallopian Tube to Uterus, Open Approach	Procedure	ICD-10-PCS
0U15475	Bypass Right Fallopian Tube to Right Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U15476	Bypass Right Fallopian Tube to Left Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U15479	Bypass Right Fallopian Tube to Uterus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U154J5	Bypass Right Fallopian Tube to Right Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U154J6	Bypass Right Fallopian Tube to Left Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U154J9	Bypass Right Fallopian Tube to Uterus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U154K5	Bypass Right Fallopian Tube to Right Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U154K6	Bypass Right Fallopian Tube to Left Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U154K9	Bypass Right Fallopian Tube to Uterus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U154Z5	Bypass Right Fallopian Tube to Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U154Z6	Bypass Right Fallopian Tube to Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U154Z9	Bypass Right Fallopian Tube to Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U16075	Bypass Left Fallopian Tube to Right Fallopian Tube with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U16076	Bypass Left Fallopian Tube to Left Fallopian Tube with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U16079	Bypass Left Fallopian Tube to Uterus with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U160J5	Bypass Left Fallopian Tube to Right Fallopian Tube with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0U160J6	Bypass Left Fallopian Tube to Left Fallopian Tube with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0U160J9	Bypass Left Fallopian Tube to Uterus with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0U160K5	Bypass Left Fallopian Tube to Right Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U160K6	Bypass Left Fallopian Tube to Left Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U160K9	Bypass Left Fallopian Tube to Uterus with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0U160Z5	Bypass Left Fallopian Tube to Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0U160Z6	Bypass Left Fallopian Tube to Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0U160Z9	Bypass Left Fallopian Tube to Uterus, Open Approach	Procedure	ICD-10-PCS
0U16475	Bypass Left Fallopian Tube to Right Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U16476	Bypass Left Fallopian Tube to Left Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U16479	Bypass Left Fallopian Tube to Uterus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U164J5	Bypass Left Fallopian Tube to Right Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U164J6	Bypass Left Fallopian Tube to Left Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U164J9	Bypass Left Fallopian Tube to Uterus with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U164K5	Bypass Left Fallopian Tube to Right Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U164K6	Bypass Left Fallopian Tube to Left Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U164K9	Bypass Left Fallopian Tube to Uterus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U164Z5	Bypass Left Fallopian Tube to Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U164Z6	Bypass Left Fallopian Tube to Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U164Z9	Bypass Left Fallopian Tube to Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U500ZZ	Destruction of Right Ovary, Open Approach	Procedure	ICD-10-PCS
0U503ZZ	Destruction of Right Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0U504ZZ	Destruction of Right Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U508ZZ	Destruction of Right Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U510ZZ	Destruction of Left Ovary, Open Approach	Procedure	ICD-10-PCS
0U513ZZ	Destruction of Left Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0U514ZZ	Destruction of Left Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U518ZZ	Destruction of Left Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U520ZZ	Destruction of Bilateral Ovaries, Open Approach	Procedure	ICD-10-PCS
0U523ZZ	Destruction of Bilateral Ovaries, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0U524ZZ	Destruction of Bilateral Ovaries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U528ZZ	Destruction of Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U540ZZ	Destruction of Uterine Supporting Structure, Open Approach	Procedure	ICD-10-PCS
0U543ZZ	Destruction of Uterine Supporting Structure, Percutaneous Approach	Procedure	ICD-10-PCS
0U544ZZ	Destruction of Uterine Supporting Structure, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U548ZZ	Destruction of Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U550ZZ	Destruction of Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0U553ZZ	Destruction of Right Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0U554ZZ	Destruction of Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U557ZZ	Destruction of Right Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U558ZZ	Destruction of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U560ZZ	Destruction of Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0U563ZZ	Destruction of Left Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0U564ZZ	Destruction of Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U567ZZ	Destruction of Left Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U568ZZ	Destruction of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U570ZZ	Destruction of Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0U573ZZ	Destruction of Bilateral Fallopian Tubes, Percutaneous Approach	Procedure	ICD-10-PCS
0U574ZZ	Destruction of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U577ZZ	Destruction of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U578ZZ	Destruction of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U590ZZ	Destruction of Uterus, Open Approach	Procedure	ICD-10-PCS
0U593ZZ	Destruction of Uterus, Percutaneous Approach	Procedure	ICD-10-PCS
0U594ZZ	Destruction of Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U597ZZ	Destruction of Uterus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U598ZZ	Destruction of Uterus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U5F0ZZ	Destruction of Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0U5F3ZZ	Destruction of Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0U5F4ZZ	Destruction of Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U5F7ZZ	Destruction of Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U5F8ZZ	Destruction of Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U750DZ	Dilation of Right Fallopian Tube with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0U750ZZ	Dilation of Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0U753DZ	Dilation of Right Fallopian Tube with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0U753ZZ	Dilation of Right Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0U754DZ	Dilation of Right Fallopian Tube with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U754ZZ	Dilation of Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U757DZ	Dilation of Right Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0U757ZZ	Dilation of Right Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U758DZ	Dilation of Right Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U758ZZ	Dilation of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U760DZ	Dilation of Left Fallopian Tube with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0U760ZZ	Dilation of Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0U763DZ	Dilation of Left Fallopian Tube with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0U763ZZ	Dilation of Left Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0U764DZ	Dilation of Left Fallopian Tube with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U764ZZ	Dilation of Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U767DZ	Dilation of Left Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U767ZZ	Dilation of Left Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U768DZ	Dilation of Left Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U768ZZ	Dilation of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U770DZ	Dilation of Bilateral Fallopian Tubes with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0U770ZZ	Dilation of Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0U773DZ	Dilation of Bilateral Fallopian Tubes with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0U773ZZ	Dilation of Bilateral Fallopian Tubes, Percutaneous Approach	Procedure	ICD-10-PCS
0U774DZ	Dilation of Bilateral Fallopian Tubes with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U774ZZ	Dilation of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U777DZ	Dilation of Bilateral Fallopian Tubes with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U777ZZ	Dilation of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U778DZ	Dilation of Bilateral Fallopian Tubes with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U778ZZ	Dilation of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U790DZ	Dilation of Uterus with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0U790ZZ	Dilation of Uterus, Open Approach	Procedure	ICD-10-PCS
0U793DZ	Dilation of Uterus with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0U793ZZ	Dilation of Uterus, Percutaneous Approach	Procedure	ICD-10-PCS
0U794DZ	Dilation of Uterus with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U794ZZ	Dilation of Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U797DZ	Dilation of Uterus with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U797ZZ	Dilation of Uterus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U798DZ	Dilation of Uterus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U798ZZ	Dilation of Uterus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U800ZZ	Division of Right Ovary, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0U803ZZ	Division of Right Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0U804ZZ	Division of Right Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U810ZZ	Division of Left Ovary, Open Approach	Procedure	ICD-10-PCS
0U813ZZ	Division of Left Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0U814ZZ	Division of Left Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U820ZZ	Division of Bilateral Ovaries, Open Approach	Procedure	ICD-10-PCS
0U823ZZ	Division of Bilateral Ovaries, Percutaneous Approach	Procedure	ICD-10-PCS
0U824ZZ	Division of Bilateral Ovaries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U840ZZ	Division of Uterine Supporting Structure, Open Approach	Procedure	ICD-10-PCS
0U843ZZ	Division of Uterine Supporting Structure, Percutaneous Approach	Procedure	ICD-10-PCS
0U844ZZ	Division of Uterine Supporting Structure, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9000Z	Drainage of Right Ovary with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0U900ZZ	Drainage of Right Ovary, Open Approach	Procedure	ICD-10-PCS
0U9040Z	Drainage of Right Ovary with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U904ZZ	Drainage of Right Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9080Z	Drainage of Right Ovary with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U908ZZ	Drainage of Right Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U90XZZ	Drainage of Right Ovary, External Approach	Procedure	ICD-10-PCS
0U9100Z	Drainage of Left Ovary with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0U910ZZ	Drainage of Left Ovary, Open Approach	Procedure	ICD-10-PCS
0U9140Z	Drainage of Left Ovary with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U914ZZ	Drainage of Left Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9180Z	Drainage of Left Ovary with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U918ZZ	Drainage of Left Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U91XZZ	Drainage of Left Ovary, External Approach	Procedure	ICD-10-PCS
0U9200Z	Drainage of Bilateral Ovaries with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0U920ZZ	Drainage of Bilateral Ovaries, Open Approach	Procedure	ICD-10-PCS
0U9240Z	Drainage of Bilateral Ovaries with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U924ZZ	Drainage of Bilateral Ovaries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9280Z	Drainage of Bilateral Ovaries with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U928ZZ	Drainage of Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U92XZZ	Drainage of Bilateral Ovaries, External Approach	Procedure	ICD-10-PCS
0U9400Z	Drainage of Uterine Supporting Structure with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0U940ZZ	Drainage of Uterine Supporting Structure, Open Approach	Procedure	ICD-10-PCS
0U9440Z	Drainage of Uterine Supporting Structure with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U944ZZ	Drainage of Uterine Supporting Structure, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9480Z	Drainage of Uterine Supporting Structure with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0U948ZZ	Drainage of Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U9500Z	Drainage of Right Fallopian Tube with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0U950ZZ	Drainage of Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0U9540Z	Drainage of Right Fallopian Tube with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U954ZZ	Drainage of Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9570Z	Drainage of Right Fallopian Tube with Drainage Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U957ZZ	Drainage of Right Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U9580Z	Drainage of Right Fallopian Tube with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U958ZZ	Drainage of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U9600Z	Drainage of Left Fallopian Tube with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0U960ZZ	Drainage of Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0U9640Z	Drainage of Left Fallopian Tube with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U964ZZ	Drainage of Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9670Z	Drainage of Left Fallopian Tube with Drainage Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U967ZZ	Drainage of Left Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U9680Z	Drainage of Left Fallopian Tube with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U968ZZ	Drainage of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U9700Z	Drainage of Bilateral Fallopian Tubes with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0U970ZZ	Drainage of Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0U9740Z	Drainage of Bilateral Fallopian Tubes with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U974ZZ	Drainage of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9770Z	Drainage of Bilateral Fallopian Tubes with Drainage Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U977ZZ	Drainage of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U9780Z	Drainage of Bilateral Fallopian Tubes with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U978ZZ	Drainage of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U9900Z	Drainage of Uterus with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0U990ZZ	Drainage of Uterus, Open Approach	Procedure	ICD-10-PCS
0U9940Z	Drainage of Uterus with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U994ZZ	Drainage of Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9970Z	Drainage of Uterus with Drainage Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U997ZZ	Drainage of Uterus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U9980Z	Drainage of Uterus with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U998ZZ	Drainage of Uterus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0U9F00Z	Drainage of Cul-de-sac with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0U9F0ZZ	Drainage of Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0U9F40Z	Drainage of Cul-de-sac with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9F4ZZ	Drainage of Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0U9F70Z	Drainage of Cul-de-sac with Drainage Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U9F7ZZ	Drainage of Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0U9F80Z	Drainage of Cul-de-sac with Drainage Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0U9F8ZZ	Drainage of Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UB00ZZ	Excision of Right Ovary, Open Approach	Procedure	ICD-10-PCS
0UB03ZZ	Excision of Right Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UB04ZZ	Excision of Right Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UB07ZZ	Excision of Right Ovary, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UB08ZZ	Excision of Right Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UB10ZZ	Excision of Left Ovary, Open Approach	Procedure	ICD-10-PCS
0UB13ZZ	Excision of Left Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UB14ZZ	Excision of Left Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UB17ZZ	Excision of Left Ovary, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UB18ZZ	Excision of Left Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UB20ZZ	Excision of Bilateral Ovaries, Open Approach	Procedure	ICD-10-PCS
0UB23ZZ	Excision of Bilateral Ovaries, Percutaneous Approach	Procedure	ICD-10-PCS
0UB24ZZ	Excision of Bilateral Ovaries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UB27ZZ	Excision of Bilateral Ovaries, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UB28ZZ	Excision of Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UB40ZZ	Excision of Uterine Supporting Structure, Open Approach	Procedure	ICD-10-PCS
0UB43ZZ	Excision of Uterine Supporting Structure, Percutaneous Approach	Procedure	ICD-10-PCS
0UB44ZZ	Excision of Uterine Supporting Structure, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UB47ZZ	Excision of Uterine Supporting Structure, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UB48ZZ	Excision of Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UB50ZZ	Excision of Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UB53ZZ	Excision of Right Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UB54ZZ	Excision of Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UB57ZZ	Excision of Right Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UB58ZZ	Excision of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UB60ZZ	Excision of Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UB63ZZ	Excision of Left Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UB64ZZ	Excision of Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UB67ZZ	Excision of Left Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UB68ZZ	Excision of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UB70ZZ	Excision of Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0UB73ZZ	Excision of Bilateral Fallopian Tubes, Percutaneous Approach	Procedure	ICD-10-PCS
0UB74ZZ	Excision of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UB77ZZ	Excision of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UB78ZZ	Excision of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UB90ZZ	Excision of Uterus, Open Approach	Procedure	ICD-10-PCS
0UB93ZZ	Excision of Uterus, Percutaneous Approach	Procedure	ICD-10-PCS
0UB94ZZ	Excision of Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UB97ZZ	Excision of Uterus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UB98ZZ	Excision of Uterus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UBF0ZZ	Excision of Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UBF3ZZ	Excision of Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UBF4ZZ	Excision of Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UBF7ZZ	Excision of Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UBF8ZZ	Excision of Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UC00ZZ	Extirpation of Matter from Right Ovary, Open Approach	Procedure	ICD-10-PCS
0UC03ZZ	Extirpation of Matter from Right Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UC04ZZ	Extirpation of Matter from Right Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UC08ZZ	Extirpation of Matter from Right Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UC10ZZ	Extirpation of Matter from Left Ovary, Open Approach	Procedure	ICD-10-PCS
0UC13ZZ	Extirpation of Matter from Left Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UC14ZZ	Extirpation of Matter from Left Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UC18ZZ	Extirpation of Matter from Left Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UC20ZZ	Extirpation of Matter from Bilateral Ovaries, Open Approach	Procedure	ICD-10-PCS
0UC23ZZ	Extirpation of Matter from Bilateral Ovaries, Percutaneous Approach	Procedure	ICD-10-PCS
0UC24ZZ	Extirpation of Matter from Bilateral Ovaries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UC28ZZ	Extirpation of Matter from Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UC40ZZ	Extirpation of Matter from Uterine Supporting Structure, Open Approach	Procedure	ICD-10-PCS
0UC43ZZ	Extirpation of Matter from Uterine Supporting Structure, Percutaneous Approach	Procedure	ICD-10-PCS
0UC44ZZ	Extirpation of Matter from Uterine Supporting Structure, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UC48ZZ	Extirpation of Matter from Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UC50ZZ	Extirpation of Matter from Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UC53ZZ	Extirpation of Matter from Right Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UC54ZZ	Extirpation of Matter from Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UC57ZZ	Extirpation of Matter from Right Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UC58ZZ	Extirpation of Matter from Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UC60ZZ	Extirpation of Matter from Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UC63ZZ	Extirpation of Matter from Left Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UC64ZZ	Extirpation of Matter from Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UC67ZZ	Extirpation of Matter from Left Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UC68ZZ	Extirpation of Matter from Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UC70ZZ	Extirpation of Matter from Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0UC73ZZ	Extirpation of Matter from Bilateral Fallopian Tubes, Percutaneous Approach	Procedure	ICD-10-PCS
0UC74ZZ	Extirpation of Matter from Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UC77ZZ	Extirpation of Matter from Bilateral Fallopian Tubes, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UC78ZZ	Extirpation of Matter from Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UC90ZZ	Extirpation of Matter from Uterus, Open Approach	Procedure	ICD-10-PCS
0UC93ZZ	Extirpation of Matter from Uterus, Percutaneous Approach	Procedure	ICD-10-PCS
0UC94ZZ	Extirpation of Matter from Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UCF0ZZ	Extirpation of Matter from Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UCF3ZZ	Extirpation of Matter from Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UCF4ZZ	Extirpation of Matter from Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UCF7ZZ	Extirpation of Matter from Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UCF8ZZ	Extirpation of Matter from Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UDN0ZZ	Extraction of Ova, Open	Procedure	ICD-10-PCS
0UF50ZZ	Fragmentation in Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UF53ZZ	Fragmentation in Right Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UF54ZZ	Fragmentation in Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UF57ZZ	Fragmentation in Right Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UF58ZZ	Fragmentation in Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UF60ZZ	Fragmentation in Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UF63ZZ	Fragmentation in Left Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UF64ZZ	Fragmentation in Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UF67ZZ	Fragmentation in Left Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UF68ZZ	Fragmentation in Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UF70ZZ	Fragmentation in Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0UF73ZZ	Fragmentation in Bilateral Fallopian Tubes, Percutaneous Approach	Procedure	ICD-10-PCS
0UF74ZZ	Fragmentation in Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UF77ZZ	Fragmentation in Bilateral Fallopian Tubes, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UF78ZZ	Fragmentation in Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UF90ZZ	Fragmentation in Uterus, Open Approach	Procedure	ICD-10-PCS
0UF93ZZ	Fragmentation in Uterus, Percutaneous Approach	Procedure	ICD-10-PCS
0UF94ZZ	Fragmentation in Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UF97ZZ	Fragmentation in Uterus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UF98ZZ	Fragmentation in Uterus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UH301Z	Insertion of Radioactive Element into Ovary, Open Approach	Procedure	ICD-10-PCS
0UH303Z	Insertion of Infusion Device into Ovary, Open Approach	Procedure	ICD-10-PCS
0UH30YZ	Insertion of Other Device into Ovary, Open Approach	Procedure	ICD-10-PCS
0UH341Z	Insertion of Radioactive Element into Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UH343Z	Insertion of Infusion Device into Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UH34YZ	Insertion of Other Device into Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UH803Z	Insertion of Infusion Device into Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UH80YZ	Insertion of Other Device into Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UH843Z	Insertion of Infusion Device into Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UH84YZ	Insertion of Other Device into Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UH901Z	Insertion of Radioactive Element into Uterus, Open Approach	Procedure	ICD-10-PCS
0UH90HZ	Insertion of Contraceptive Device into Uterus, Open Approach	Procedure	ICD-10-PCS
0UHD03Z	Insertion of Infusion Device into Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UHD0YZ	Insertion of Other Device into Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UHD43Z	Insertion of Infusion Device into Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UHD4YZ	Insertion of Other Device into Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UHH03Z	Insertion of Infusion Device into Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UHH0YZ	Insertion of Other Device into Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UHH33Z	Insertion of Infusion Device into Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UHH43Z	Insertion of Infusion Device into Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UHH4YZ	Insertion of Other Device into Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UL50CZ	Occlusion of Right Fallopian Tube with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0UL50DZ	Occlusion of Right Fallopian Tube with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0UL50ZZ	Occlusion of Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UL53CZ	Occlusion of Right Fallopian Tube with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0UL53DZ	Occlusion of Right Fallopian Tube with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0UL53ZZ	Occlusion of Right Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UL54CZ	Occlusion of Right Fallopian Tube with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UL54DZ	Occlusion of Right Fallopian Tube with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UL54ZZ	Occlusion of Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UL57DZ	Occlusion of Right Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UL57ZZ	Occlusion of Right Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UL58DZ	Occlusion of Right Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UL58ZZ	Occlusion of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UL60CZ	Occlusion of Left Fallopian Tube with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0UL60DZ	Occlusion of Left Fallopian Tube with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0UL60ZZ	Occlusion of Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UL63CZ	Occlusion of Left Fallopian Tube with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0UL63DZ	Occlusion of Left Fallopian Tube with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0UL63ZZ	Occlusion of Left Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UL64CZ	Occlusion of Left Fallopian Tube with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UL64DZ	Occlusion of Left Fallopian Tube with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UL64ZZ	Occlusion of Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UL67DZ	Occlusion of Left Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UL67ZZ	Occlusion of Left Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UL68DZ	Occlusion of Left Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UL68ZZ	Occlusion of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UL70CZ	Occlusion of Bilateral Fallopian Tubes with Extraluminal Device, Open Approach	Procedure	ICD-10-PCS
0UL70DZ	Occlusion of Bilateral Fallopian Tubes with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0UL70ZZ	Occlusion of Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0UL73CZ	Occlusion of Bilateral Fallopian Tubes with Extraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0UL73DZ	Occlusion of Bilateral Fallopian Tubes with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0UL73ZZ	Occlusion of Bilateral Fallopian Tubes, Percutaneous Approach	Procedure	ICD-10-PCS
0UL74CZ	Occlusion of Bilateral Fallopian Tubes with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UL74DZ	Occlusion of Bilateral Fallopian Tubes with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UL74ZZ	Occlusion of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UL77DZ	Occlusion of Bilateral Fallopian Tubes with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UL77ZZ	Occlusion of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UL78DZ	Occlusion of Bilateral Fallopian Tubes with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UL78ZZ	Occlusion of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0ULF7DZ	Occlusion of Cul-de-sac with Intraluminal Device, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0ULF7ZZ	Occlusion of Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0ULF8DZ	Occlusion of Cul-de-sac with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0ULF8ZZ	Occlusion of Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UM00ZZ	Reattachment of Right Ovary, Open Approach	Procedure	ICD-10-PCS
0UM04ZZ	Reattachment of Right Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UM10ZZ	Reattachment of Left Ovary, Open Approach	Procedure	ICD-10-PCS
0UM14ZZ	Reattachment of Left Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UM20ZZ	Reattachment of Bilateral Ovaries, Open Approach	Procedure	ICD-10-PCS
0UM24ZZ	Reattachment of Bilateral Ovaries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UM40ZZ	Reattachment of Uterine Supporting Structure, Open Approach	Procedure	ICD-10-PCS
0UM44ZZ	Reattachment of Uterine Supporting Structure, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UM50ZZ	Reattachment of Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UM54ZZ	Reattachment of Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UM60ZZ	Reattachment of Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UM64ZZ	Reattachment of Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UM70ZZ	Reattachment of Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0UM74ZZ	Reattachment of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UM90ZZ	Reattachment of Uterus, Open Approach	Procedure	ICD-10-PCS
0UM94ZZ	Reattachment of Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UMF0ZZ	Reattachment of Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UMF4ZZ	Reattachment of Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UN00ZZ	Release Right Ovary, Open Approach	Procedure	ICD-10-PCS
0UN03ZZ	Release Right Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UN04ZZ	Release Right Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UN08ZZ	Release Right Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UN10ZZ	Release Left Ovary, Open Approach	Procedure	ICD-10-PCS
0UN13ZZ	Release Left Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UN14ZZ	Release Left Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UN18ZZ	Release Left Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UN20ZZ	Release Bilateral Ovaries, Open Approach	Procedure	ICD-10-PCS
0UN23ZZ	Release Bilateral Ovaries, Percutaneous Approach	Procedure	ICD-10-PCS
0UN24ZZ	Release Bilateral Ovaries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UN28ZZ	Release Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UN40ZZ	Release Uterine Supporting Structure, Open Approach	Procedure	ICD-10-PCS
0UN43ZZ	Release Uterine Supporting Structure, Percutaneous Approach	Procedure	ICD-10-PCS
0UN44ZZ	Release Uterine Supporting Structure, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UN48ZZ	Release Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UN50ZZ	Release Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UN53ZZ	Release Right Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UN54ZZ	Release Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UN57ZZ	Release Right Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UN58ZZ	Release Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UN60ZZ	Release Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UN63ZZ	Release Left Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UN64ZZ	Release Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UN67ZZ	Release Left Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UN68ZZ	Release Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UN70ZZ	Release Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0UN73ZZ	Release Bilateral Fallopian Tubes, Percutaneous Approach	Procedure	ICD-10-PCS
0UN74ZZ	Release Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UN77ZZ	Release Bilateral Fallopian Tubes, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UN78ZZ	Release Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UN90ZZ	Release Uterus, Open Approach	Procedure	ICD-10-PCS
0UN93ZZ	Release Uterus, Percutaneous Approach	Procedure	ICD-10-PCS
0UN94ZZ	Release Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UN97ZZ	Release Uterus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UN98ZZ	Release Uterus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UNF0ZZ	Release Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UNF3ZZ	Release Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UNF4ZZ	Release Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UNF7ZZ	Release Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UNF8ZZ	Release Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UP300Z	Removal of Drainage Device from Ovary, Open Approach	Procedure	ICD-10-PCS
0UP303Z	Removal of Infusion Device from Ovary, Open Approach	Procedure	ICD-10-PCS
0UP30YZ	Removal of Other Device from Ovary, Open Approach	Procedure	ICD-10-PCS
0UP330Z	Removal of Drainage Device from Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UP333Z	Removal of Infusion Device from Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UP340Z	Removal of Drainage Device from Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP343Z	Removal of Infusion Device from Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP34YZ	Removal of Other Device from Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP800Z	Removal of Drainage Device from Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UP803Z	Removal of Infusion Device from Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UP807Z	Removal of Autologous Tissue Substitute from Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UP80CZ	Removal of Extraluminal Device from Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UP80DZ	Removal of Intraluminal Device from Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UP80JZ	Removal of Synthetic Substitute from Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UP80KZ	Removal of Nonautologous Tissue Substitute from Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UP80YZ	Removal of Other Device from Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UP830Z	Removal of Drainage Device from Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UP833Z	Removal of Infusion Device from Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UP837Z	Removal of Autologous Tissue Substitute from Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UP83CZ	Removal of Extraluminal Device from Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UP83DZ	Removal of Intraluminal Device from Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UP83JZ	Removal of Synthetic Substitute from Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UP83KZ	Removal of Nonautologous Tissue Substitute from Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UP840Z	Removal of Drainage Device from Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP843Z	Removal of Infusion Device from Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP847Z	Removal of Autologous Tissue Substitute from Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP84CZ	Removal of Extraluminal Device from Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP84DZ	Removal of Intraluminal Device from Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP84JZ	Removal of Synthetic Substitute from Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP84KZ	Removal of Nonautologous Tissue Substitute from Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP84YZ	Removal of Other Device from Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UP877Z	Removal of Autologous Tissue Substitute from Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UP87CZ	Removal of Extraluminal Device from Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UP87JZ	Removal of Synthetic Substitute from Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UP87KZ	Removal of Nonautologous Tissue Substitute from Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UP887Z	Removal of Autologous Tissue Substitute from Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UP88CZ	Removal of Extraluminal Device from Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UP88JZ	Removal of Synthetic Substitute from Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UP88KZ	Removal of Nonautologous Tissue Substitute from Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UPD00Z	Removal of Drainage Device from Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UPD01Z	Removal of Radioactive Element from Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UPD03Z	Removal of Infusion Device from Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UPD07Z	Removal of Autologous Tissue Substitute from Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UPD0CZ	Removal of Extraluminal Device from Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UPD0DZ	Removal of Intraluminal Device from Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UPD0HZ	Removal of Contraceptive Device from Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UPD0JZ	Removal of Synthetic Substitute from Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UPD0KZ	Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UPD0YZ	Removal of Other Device from Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UPD30Z	Removal of Drainage Device from Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UPD33Z	Removal of Infusion Device from Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UPD37Z	Removal of Autologous Tissue Substitute from Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UPD3DZ	Removal of Intraluminal Device from Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UPD3HZ	Removal of Contraceptive Device from Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UPD3JZ	Removal of Synthetic Substitute from Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UPD3KZ	Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UPD40Z	Removal of Drainage Device from Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPD41Z	Removal of Radioactive Element from Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPD43Z	Removal of Infusion Device from Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPD47Z	Removal of Autologous Tissue Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPD4CZ	Removal of Extraluminal Device from Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPD4DZ	Removal of Intraluminal Device from Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPD4HZ	Removal of Contraceptive Device from Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPD4JZ	Removal of Synthetic Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPD4KZ	Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPD4YZ	Removal of Other Device from Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPD77Z	Removal of Autologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UPD7JZ	Removal of Synthetic Substitute from Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UPD7KZ	Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UPD87Z	Removal of Autologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UPD8JZ	Removal of Synthetic Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UPD8KZ	Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UPH00Z	Removal of Drainage Device from Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UPH01Z	Removal of Radioactive Element from Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UPH03Z	Removal of Infusion Device from Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UPH07Z	Removal of Autologous Tissue Substitute from Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UPH0DZ	Removal of Intraluminal Device from Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UPH0JZ	Removal of Synthetic Substitute from Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UPH0KZ	Removal of Nonautologous Tissue Substitute from Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UPH0YZ	Removal of Other Device from Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UPH30Z	Removal of Drainage Device from Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UPH33Z	Removal of Infusion Device from Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UPH37Z	Removal of Autologous Tissue Substitute from Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UPH3DZ	Removal of Intraluminal Device from Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UPH3JZ	Removal of Synthetic Substitute from Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UPH3KZ	Removal of Nonautologous Tissue Substitute from Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UPH40Z	Removal of Drainage Device from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPH41Z	Removal of Radioactive Element from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPH43Z	Removal of Infusion Device from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPH47Z	Removal of Autologous Tissue Substitute from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPH4DZ	Removal of Intraluminal Device from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPH4JZ	Removal of Synthetic Substitute from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPH4KZ	Removal of Nonautologous Tissue Substitute from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPH4YZ	Removal of Other Device from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UPH77Z	Removal of Autologous Tissue Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UPH7JZ	Removal of Synthetic Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UPH7KZ	Removal of Nonautologous Tissue Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UPH87Z	Removal of Autologous Tissue Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UPH8JZ	Removal of Synthetic Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UPH8KZ	Removal of Nonautologous Tissue Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UQ00ZZ	Repair Right Ovary, Open Approach	Procedure	ICD-10-PCS
0UQ03ZZ	Repair Right Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UQ04ZZ	Repair Right Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UQ08ZZ	Repair Right Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UQ10ZZ	Repair Left Ovary, Open Approach	Procedure	ICD-10-PCS
0UQ13ZZ	Repair Left Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UQ14ZZ	Repair Left Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UQ18ZZ	Repair Left Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UQ20ZZ	Repair Bilateral Ovaries, Open Approach	Procedure	ICD-10-PCS
0UQ23ZZ	Repair Bilateral Ovaries, Percutaneous Approach	Procedure	ICD-10-PCS
0UQ24ZZ	Repair Bilateral Ovaries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UQ28ZZ	Repair Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UQ40ZZ	Repair Uterine Supporting Structure, Open Approach	Procedure	ICD-10-PCS
0UQ43ZZ	Repair Uterine Supporting Structure, Percutaneous Approach	Procedure	ICD-10-PCS
0UQ44ZZ	Repair Uterine Supporting Structure, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UQ48ZZ	Repair Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UQ50ZZ	Repair Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UQ53ZZ	Repair Right Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UQ54ZZ	Repair Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UQ57ZZ	Repair Right Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UQ58ZZ	Repair Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UQ60ZZ	Repair Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UQ63ZZ	Repair Left Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UQ64ZZ	Repair Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UQ67ZZ	Repair Left Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UQ68ZZ	Repair Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UQ70ZZ	Repair Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0UQ73ZZ	Repair Bilateral Fallopian Tubes, Percutaneous Approach	Procedure	ICD-10-PCS
0UQ74ZZ	Repair Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UQ77ZZ	Repair Bilateral Fallopian Tubes, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UQ78ZZ	Repair Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UQ90ZZ	Repair Uterus, Open Approach	Procedure	ICD-10-PCS
0UQ93ZZ	Repair Uterus, Percutaneous Approach	Procedure	ICD-10-PCS
0UQ94ZZ	Repair Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UQ97ZZ	Repair Uterus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UQ98ZZ	Repair Uterus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UQF0ZZ	Repair Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UQF3ZZ	Repair Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UQF4ZZ	Repair Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UQF7ZZ	Repair Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UQF8ZZ	Repair Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0US00ZZ	Reposition Right Ovary, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0US04ZZ	Reposition Right Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0US08ZZ	Reposition Right Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0US10ZZ	Reposition Left Ovary, Open Approach	Procedure	ICD-10-PCS
0US14ZZ	Reposition Left Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0US18ZZ	Reposition Left Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0US20ZZ	Reposition Bilateral Ovaries, Open Approach	Procedure	ICD-10-PCS
0US24ZZ	Reposition Bilateral Ovaries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0US28ZZ	Reposition Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0US40ZZ	Reposition Uterine Supporting Structure, Open Approach	Procedure	ICD-10-PCS
0US44ZZ	Reposition Uterine Supporting Structure, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0US48ZZ	Reposition Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0US50ZZ	Reposition Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0US54ZZ	Reposition Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0US58ZZ	Reposition Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0US60ZZ	Reposition Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0US64ZZ	Reposition Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0US68ZZ	Reposition Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0US70ZZ	Reposition Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0US74ZZ	Reposition Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0US78ZZ	Reposition Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0US90ZZ	Reposition Uterus, Open Approach	Procedure	ICD-10-PCS
0US94ZZ	Reposition Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0US97ZZ	Reposition Uterus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0US98ZZ	Reposition Uterus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0USF0ZZ	Reposition Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0USF4ZZ	Reposition Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0USF8ZZ	Reposition Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UT00ZZ	Resection of Right Ovary, Open Approach	Procedure	ICD-10-PCS
0UT04ZZ	Resection of Right Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UT07ZZ	Resection of Right Ovary, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UT08ZZ	Resection of Right Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UT0FZZ	Resection of Right Ovary, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0UT10ZZ	Resection of Left Ovary, Open Approach	Procedure	ICD-10-PCS
0UT14ZZ	Resection of Left Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UT17ZZ	Resection of Left Ovary, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UT18ZZ	Resection of Left Ovary, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UT1FZZ	Resection of Left Ovary, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0UT20ZZ	Resection of Bilateral Ovaries, Open Approach	Procedure	ICD-10-PCS
0UT24ZZ	Resection of Bilateral Ovaries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UT27ZZ	Resection of Bilateral Ovaries, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UT28ZZ	Resection of Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UT2FZZ	Resection of Bilateral Ovaries, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0UT40ZZ	Resection of Uterine Supporting Structure, Open Approach	Procedure	ICD-10-PCS
0UT44ZZ	Resection of Uterine Supporting Structure, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UT47ZZ	Resection of Uterine Supporting Structure, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UT48ZZ	Resection of Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UT50ZZ	Resection of Right Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UT54ZZ	Resection of Right Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UT57ZZ	Resection of Right Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UT58ZZ	Resection of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UT5FZZ	Resection of Right Fallopian Tube, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0UT60ZZ	Resection of Left Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UT64ZZ	Resection of Left Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UT67ZZ	Resection of Left Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UT68ZZ	Resection of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UT6FZZ	Resection of Left Fallopian Tube, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0UT70ZZ	Resection of Bilateral Fallopian Tubes, Open Approach	Procedure	ICD-10-PCS
0UT74ZZ	Resection of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UT77ZZ	Resection of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UT78ZZ	Resection of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UT7FZZ	Resection of Bilateral Fallopian Tubes, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0UT90ZL	Resection of Uterus, Supracervical, Open Approach	Procedure	ICD-10-PCS
0UT90ZZ	Resection of Uterus, Open Approach	Procedure	ICD-10-PCS
0UT94ZL	Resection of Uterus, Supracervical, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UT94ZZ	Resection of Uterus, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UT97ZL	Resection of Uterus, Supracervical, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UT97ZZ	Resection of Uterus, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UT98ZL	Resection of Uterus, Supracervical, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UT98ZZ	Resection of Uterus, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UT9FZL	Resection of Uterus, Supracervical, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0UT9FZZ	Resection of Uterus, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	Procedure	ICD-10-PCS
0UTF0ZZ	Resection of Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UTF4ZZ	Resection of Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UTF7ZZ	Resection of Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UTF8ZZ	Resection of Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UU407Z	Supplement Uterine Supporting Structure with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UU40JZ	Supplement Uterine Supporting Structure with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0UU40KZ	Supplement Uterine Supporting Structure with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0UU447Z	Supplement Uterine Supporting Structure with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU44JZ	Supplement Uterine Supporting Structure with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU44KZ	Supplement Uterine Supporting Structure with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU507Z	Supplement Right Fallopian Tube with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0UU50JZ	Supplement Right Fallopian Tube with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0UU50KZ	Supplement Right Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0UU547Z	Supplement Right Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU54JZ	Supplement Right Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU54KZ	Supplement Right Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU577Z	Supplement Right Fallopian Tube with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UU57JZ	Supplement Right Fallopian Tube with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UU57KZ	Supplement Right Fallopian Tube with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UU587Z	Supplement Right Fallopian Tube with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UU58JZ	Supplement Right Fallopian Tube with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UU58KZ	Supplement Right Fallopian Tube with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UU607Z	Supplement Left Fallopian Tube with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0UU60JZ	Supplement Left Fallopian Tube with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0UU60KZ	Supplement Left Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0UU647Z	Supplement Left Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU64JZ	Supplement Left Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU64KZ	Supplement Left Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UU677Z	Supplement Left Fallopian Tube with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UU67JZ	Supplement Left Fallopian Tube with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UU67KZ	Supplement Left Fallopian Tube with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UU687Z	Supplement Left Fallopian Tube with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UU68JZ	Supplement Left Fallopian Tube with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UU68KZ	Supplement Left Fallopian Tube with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UU707Z	Supplement Bilateral Fallopian Tubes with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0UU70JZ	Supplement Bilateral Fallopian Tubes with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0UU70KZ	Supplement Bilateral Fallopian Tubes with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0UU747Z	Supplement Bilateral Fallopian Tubes with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU74JZ	Supplement Bilateral Fallopian Tubes with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU74KZ	Supplement Bilateral Fallopian Tubes with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UU777Z	Supplement Bilateral Fallopian Tubes with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UU77JZ	Supplement Bilateral Fallopian Tubes with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UU77KZ	Supplement Bilateral Fallopian Tubes with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UU787Z	Supplement Bilateral Fallopian Tubes with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UU78JZ	Supplement Bilateral Fallopian Tubes with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UU78KZ	Supplement Bilateral Fallopian Tubes with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UUF07Z	Supplement Cul-de-sac with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0UUF0JZ	Supplement Cul-de-sac with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0UUF0KZ	Supplement Cul-de-sac with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0UUF47Z	Supplement Cul-de-sac with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UUF4JZ	Supplement Cul-de-sac with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UUF4KZ	Supplement Cul-de-sac with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UUF77Z	Supplement Cul-de-sac with Autologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UUF7JZ	Supplement Cul-de-sac with Synthetic Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UUF7KZ	Supplement Cul-de-sac with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UUF87Z	Supplement Cul-de-sac with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UUF8JZ	Supplement Cul-de-sac with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UUF8KZ	Supplement Cul-de-sac with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UW300Z	Revision of Drainage Device in Ovary, Open Approach	Procedure	ICD-10-PCS
0UW303Z	Revision of Infusion Device in Ovary, Open Approach	Procedure	ICD-10-PCS
0UW30YZ	Revision of Other Device in Ovary, Open Approach	Procedure	ICD-10-PCS
0UW330Z	Revision of Drainage Device in Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UW333Z	Revision of Infusion Device in Ovary, Percutaneous Approach	Procedure	ICD-10-PCS
0UW340Z	Revision of Drainage Device in Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UW343Z	Revision of Infusion Device in Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UW34YZ	Revision of Other Device in Ovary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UW800Z	Revision of Drainage Device in Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UW803Z	Revision of Infusion Device in Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UW807Z	Revision of Autologous Tissue Substitute in Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UW80CZ	Revision of Extraluminal Device in Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UW80DZ	Revision of Intraluminal Device in Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UW80JZ	Revision of Synthetic Substitute in Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UW80KZ	Revision of Nonautologous Tissue Substitute in Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UW80YZ	Revision of Other Device in Fallopian Tube, Open Approach	Procedure	ICD-10-PCS
0UW830Z	Revision of Drainage Device in Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UW833Z	Revision of Infusion Device in Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UW837Z	Revision of Autologous Tissue Substitute in Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UW83CZ	Revision of Extraluminal Device in Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UW83DZ	Revision of Intraluminal Device in Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UW83JZ	Revision of Synthetic Substitute in Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UW83KZ	Revision of Nonautologous Tissue Substitute in Fallopian Tube, Percutaneous Approach	Procedure	ICD-10-PCS
0UW840Z	Revision of Drainage Device in Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UW843Z	Revision of Infusion Device in Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UW847Z	Revision of Autologous Tissue Substitute in Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UW84CZ	Revision of Extraluminal Device in Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UW84DZ	Revision of Intraluminal Device in Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UW84JZ	Revision of Synthetic Substitute in Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UW84KZ	Revision of Nonautologous Tissue Substitute in Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UW84YZ	Revision of Other Device in Fallopian Tube, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UW870Z	Revision of Drainage Device in Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UW873Z	Revision of Infusion Device in Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UW877Z	Revision of Autologous Tissue Substitute in Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UW87CZ	Revision of Extraluminal Device in Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UW87DZ	Revision of Intraluminal Device in Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UW87JZ	Revision of Synthetic Substitute in Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UW87KZ	Revision of Nonautologous Tissue Substitute in Fallopian Tube, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UW880Z	Revision of Drainage Device in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UW883Z	Revision of Infusion Device in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UW887Z	Revision of Autologous Tissue Substitute in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UW88CZ	Revision of Extraluminal Device in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UW88DZ	Revision of Intraluminal Device in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UW88JZ	Revision of Synthetic Substitute in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UW88KZ	Revision of Nonautologous Tissue Substitute in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWD00Z	Revision of Drainage Device in Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UWD01Z	Revision of Radioactive Element in Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UWD03Z	Revision of Infusion Device in Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UWD07Z	Revision of Autologous Tissue Substitute in Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UWD0CZ	Revision of Extraluminal Device in Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UWD0DZ	Revision of Intraluminal Device in Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UWD0HZ	Revision of Contraceptive Device in Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UWD0JZ	Revision of Synthetic Substitute in Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UWD0KZ	Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UWD0YZ	Revision of Other Device in Uterus and Cervix, Open Approach	Procedure	ICD-10-PCS
0UWD30Z	Revision of Drainage Device in Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UWD33Z	Revision of Infusion Device in Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UWD37Z	Revision of Autologous Tissue Substitute in Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UWD3CZ	Revision of Extraluminal Device in Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UWD3DZ	Revision of Intraluminal Device in Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UWD3HZ	Revision of Contraceptive Device in Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UWD3JZ	Revision of Synthetic Substitute in Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UWD3KZ	Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Percutaneous Approach	Procedure	ICD-10-PCS
0UWD40Z	Revision of Drainage Device in Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWD41Z	Revision of Radioactive Element in Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWD43Z	Revision of Infusion Device in Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWD47Z	Revision of Autologous Tissue Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWD4CZ	Revision of Extraluminal Device in Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWD4DZ	Revision of Intraluminal Device in Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWD4HZ	Revision of Contraceptive Device in Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWD4JZ	Revision of Synthetic Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWD4KZ	Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWD4YZ	Revision of Other Device in Uterus and Cervix, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWD70Z	Revision of Drainage Device in Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWD73Z	Revision of Infusion Device in Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWD77Z	Revision of Autologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWD7CZ	Revision of Extraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWD7DZ	Revision of Intraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWD7HZ	Revision of Contraceptive Device in Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWD7JZ	Revision of Synthetic Substitute in Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWD7KZ	Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UWD80Z	Revision of Drainage Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWD83Z	Revision of Infusion Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWD87Z	Revision of Autologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWD8CZ	Revision of Extraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWD8DZ	Revision of Intraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWD8HZ	Revision of Contraceptive Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWD8JZ	Revision of Synthetic Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWD8KZ	Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWH00Z	Revision of Drainage Device in Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UWH01Z	Revision of Radioactive Element in Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UWH03Z	Revision of Infusion Device in Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UWH07Z	Revision of Autologous Tissue Substitute in Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UWH0DZ	Revision of Intraluminal Device in Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UWH0JZ	Revision of Synthetic Substitute in Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UWH0KZ	Revision of Nonautologous Tissue Substitute in Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UWH0YZ	Revision of Other Device in Vagina and Cul-de-sac, Open Approach	Procedure	ICD-10-PCS
0UWH30Z	Revision of Drainage Device in Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UWH33Z	Revision of Infusion Device in Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UWH37Z	Revision of Autologous Tissue Substitute in Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UWH3DZ	Revision of Intraluminal Device in Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UWH3JZ	Revision of Synthetic Substitute in Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UWH3KZ	Revision of Nonautologous Tissue Substitute in Vagina and Cul-de-sac, Percutaneous Approach	Procedure	ICD-10-PCS
0UWH40Z	Revision of Drainage Device in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWH41Z	Revision of Radioactive Element in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWH43Z	Revision of Infusion Device in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWH47Z	Revision of Autologous Tissue Substitute in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0UWH4DZ	Revision of Intraluminal Device in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWH4JZ	Revision of Synthetic Substitute in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWH4KZ	Revision of Nonautologous Tissue Substitute in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWH4YZ	Revision of Other Device in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0UWH70Z	Revision of Drainage Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWH73Z	Revision of Infusion Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWH77Z	Revision of Autologous Tissue Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWH7DZ	Revision of Intraluminal Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWH7JZ	Revision of Synthetic Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWH7KZ	Revision of Nonautologous Tissue Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0UWH80Z	Revision of Drainage Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWH83Z	Revision of Infusion Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWH87Z	Revision of Autologous Tissue Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWH8DZ	Revision of Intraluminal Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWH8JZ	Revision of Synthetic Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UWH8KZ	Revision of Nonautologous Tissue Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0UY00Z0	Transplantation of Right Ovary, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0UY00Z1	Transplantation of Right Ovary, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0UY00Z2	Transplantation of Right Ovary, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0UY10Z0	Transplantation of Left Ovary, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0UY10Z1	Transplantation of Left Ovary, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0UY10Z2	Transplantation of Left Ovary, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0UY90Z0	Transplantation of Uterus, Allogeneic, Open Approach	Procedure	ICD-10-PCS
0UY90Z1	Transplantation of Uterus, Syngeneic, Open Approach	Procedure	ICD-10-PCS
0UY90Z2	Transplantation of Uterus, Zooplastic, Open Approach	Procedure	ICD-10-PCS
0W0F07Z	Alteration of Abdominal Wall with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0W0F0JZ	Alteration of Abdominal Wall with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0W0F0KZ	Alteration of Abdominal Wall with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0W0F0ZZ	Alteration of Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0W0F37Z	Alteration of Abdominal Wall with Autologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W0F3JZ	Alteration of Abdominal Wall with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W0F3KZ	Alteration of Abdominal Wall with Nonautologous Tissue Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W0F3ZZ	Alteration of Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0W0F47Z	Alteration of Abdominal Wall with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W0F4JZ	Alteration of Abdominal Wall with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W0F4KZ	Alteration of Abdominal Wall with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W0F4ZZ	Alteration of Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W110JG	Bypass Cranial Cavity to Peritoneal Cavity with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W190JG	Bypass Right Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W193JG	Bypass Right Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W194JG	Bypass Right Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W1B0JG	Bypass Left Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W1B3JG	Bypass Left Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W1B4JG	Bypass Left Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W1G0J4	Bypass Peritoneal Cavity to Cutaneous with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W1G0J6	Bypass Peritoneal Cavity to Bladder with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W1G0J9	Bypass Peritoneal Cavity to Right Pleural Cavity with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W1G0JB	Bypass Peritoneal Cavity to Left Pleural Cavity with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W1G0JG	Bypass Peritoneal Cavity to Peritoneal Cavity with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W1G0JJ	Bypass Peritoneal Cavity to Pelvic Cavity with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W1G0JW	Bypass Peritoneal Cavity to Upper Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0W1G0JY	Bypass Peritoneal Cavity to Lower Vein with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W1G3J6	Bypass Peritoneal Cavity to Bladder with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W1G3J9	Bypass Peritoneal Cavity to Right Pleural Cavity with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W1G3JB	Bypass Peritoneal Cavity to Left Pleural Cavity with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W1G3JG	Bypass Peritoneal Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W1G3JJ	Bypass Peritoneal Cavity to Pelvic Cavity with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W1G3JW	Bypass Peritoneal Cavity to Upper Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W1G3JY	Bypass Peritoneal Cavity to Lower Vein with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W1G4J4	Bypass Peritoneal Cavity to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W1G4J6	Bypass Peritoneal Cavity to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W1G4J9	Bypass Peritoneal Cavity to Right Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W1G4JB	Bypass Peritoneal Cavity to Left Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W1G4JG	Bypass Peritoneal Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W1G4JJ	Bypass Peritoneal Cavity to Pelvic Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W1G4JW	Bypass Peritoneal Cavity to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W1G4JY	Bypass Peritoneal Cavity to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W1J0JG	Bypass Pelvic Cavity to Peritoneal Cavity with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0W1J3JG	Bypass Pelvic Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0W1J4JG	Bypass Pelvic Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W3F0ZZ	Control Bleeding in Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0W3F3ZZ	Control Bleeding in Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0W3F4ZZ	Control Bleeding in Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W3G0ZZ	Control Bleeding in Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0W3G3ZZ	Control Bleeding in Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0W3G4ZZ	Control Bleeding in Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W3P0ZZ	Control Bleeding in Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0W3P3ZZ	Control Bleeding in Gastrointestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0W3P4ZZ	Control Bleeding in Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W3P7ZZ	Control Bleeding in Gastrointestinal Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0W9F00Z	Drainage of Abdominal Wall with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0W9F0ZZ	Drainage of Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0W9F40Z	Drainage of Abdominal Wall with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W9F4ZZ	Drainage of Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W9G00Z	Drainage of Peritoneal Cavity with Drainage Device, Open Approach	Procedure	ICD-10-PCS
0W9G0ZZ	Drainage of Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0W9G40Z	Drainage of Peritoneal Cavity with Drainage Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0W9G4ZZ	Drainage of Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WBF0ZZ	Excision of Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WBF3ZZ	Excision of Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WBF4ZZ	Excision of Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WBFXZ2	Excision of Abdominal Wall, Stoma, External Approach	Procedure	ICD-10-PCS
0WBFXZZ	Excision of Abdominal Wall, External Approach	Procedure	ICD-10-PCS
0WCG0ZZ	Extirpation of Matter from Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WCG3ZZ	Extirpation of Matter from Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WCG4ZZ	Extirpation of Matter from Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WCP0ZZ	Extirpation of Matter from Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WCP3ZZ	Extirpation of Matter from Gastrointestinal Tract, Percutaneous Approach	Procedure	ICD-10-PCS
0WCP4ZZ	Extirpation of Matter from Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WFG0ZZ	Fragmentation in Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WFG3ZZ	Fragmentation in Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WFG4ZZ	Fragmentation in Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WFP0ZZ	Fragmentation in Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WFP4ZZ	Fragmentation in Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WHF01Z	Insertion of Radioactive Element into Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WHF03Z	Insertion of Infusion Device into Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WHF0YZ	Insertion of Other Device into Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WHF33Z	Insertion of Infusion Device into Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WHF3YZ	Insertion of Other Device into Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WHF41Z	Insertion of Radioactive Element into Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WHF43Z	Insertion of Infusion Device into Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WHF4YZ	Insertion of Other Device into Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WHG01Z	Insertion of Radioactive Element into Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WHG03Z	Insertion of Infusion Device into Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WHG0YZ	Insertion of Other Device into Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0WHG3YZ	Insertion of Other Device into Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WHG41Z	Insertion of Radioactive Element into Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WHG43Z	Insertion of Infusion Device into Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WHG4YZ	Insertion of Other Device into Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WHP01Z	Insertion of Radioactive Element into Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WHP03Z	Insertion of Infusion Device into Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WHP0YZ	Insertion of Other Device into Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WHP41Z	Insertion of Radioactive Element into Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WHP43Z	Insertion of Infusion Device into Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WHP4YZ	Insertion of Other Device into Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WMF0ZZ	Reattachment of Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WPF00Z	Removal of Drainage Device from Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WPF01Z	Removal of Radioactive Element from Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WPF03Z	Removal of Infusion Device from Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WPF07Z	Removal of Autologous Tissue Substitute from Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WPF0JZ	Removal of Synthetic Substitute from Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WPF0KZ	Removal of Nonautologous Tissue Substitute from Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WPF0YZ	Removal of Other Device from Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WPF30Z	Removal of Drainage Device from Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WPF33Z	Removal of Infusion Device from Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WPF37Z	Removal of Autologous Tissue Substitute from Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WPF3JZ	Removal of Synthetic Substitute from Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WPF3KZ	Removal of Nonautologous Tissue Substitute from Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WPF3YZ	Removal of Other Device from Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WPF40Z	Removal of Drainage Device from Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPF41Z	Removal of Radioactive Element from Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPF43Z	Removal of Infusion Device from Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPF47Z	Removal of Autologous Tissue Substitute from Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPF4JZ	Removal of Synthetic Substitute from Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPF4KZ	Removal of Nonautologous Tissue Substitute from Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0WPF4YZ	Removal of Other Device from Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPG00Z	Removal of Drainage Device from Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WPG01Z	Removal of Radioactive Element from Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WPG03Z	Removal of Infusion Device from Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WPG0JZ	Removal of Synthetic Substitute from Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WPG0YZ	Removal of Other Device from Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WPG30Z	Removal of Drainage Device from Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WPG33Z	Removal of Infusion Device from Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WPG3JZ	Removal of Synthetic Substitute from Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WPG3YZ	Removal of Other Device from Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WPG40Z	Removal of Drainage Device from Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPG41Z	Removal of Radioactive Element from Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPG43Z	Removal of Infusion Device from Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPG4JZ	Removal of Synthetic Substitute from Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPG4YZ	Removal of Other Device from Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPP01Z	Removal of Radioactive Element from Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WPP03Z	Removal of Infusion Device from Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WPP0YZ	Removal of Other Device from Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WPP41Z	Removal of Radioactive Element from Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPP43Z	Removal of Infusion Device from Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WPP4YZ	Removal of Other Device from Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WQF0ZZ	Repair Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WQF3ZZ	Repair Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WQF4ZZ	Repair Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WQFXZ2	Repair Abdominal Wall, Stoma, External Approach	Procedure	ICD-10-PCS
0WQFXZZ	Repair Abdominal Wall, External Approach	Procedure	ICD-10-PCS
0WUF07Z	Supplement Abdominal Wall with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0WUF0JZ	Supplement Abdominal Wall with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0WUF0KZ	Supplement Abdominal Wall with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0WUF47Z	Supplement Abdominal Wall with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WUF4JZ	Supplement Abdominal Wall with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0WUF4KZ	Supplement Abdominal Wall with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWF00Z	Revision of Drainage Device in Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WWF01Z	Revision of Radioactive Element in Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WWF03Z	Revision of Infusion Device in Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WWF07Z	Revision of Autologous Tissue Substitute in Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WWF0JZ	Revision of Synthetic Substitute in Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WWF0KZ	Revision of Nonautologous Tissue Substitute in Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WWF0YZ	Revision of Other Device in Abdominal Wall, Open Approach	Procedure	ICD-10-PCS
0WWF30Z	Revision of Drainage Device in Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WWF33Z	Revision of Infusion Device in Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WWF37Z	Revision of Autologous Tissue Substitute in Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WWF3JZ	Revision of Synthetic Substitute in Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WWF3KZ	Revision of Nonautologous Tissue Substitute in Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WWF3YZ	Revision of Other Device in Abdominal Wall, Percutaneous Approach	Procedure	ICD-10-PCS
0WWF40Z	Revision of Drainage Device in Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWF41Z	Revision of Radioactive Element in Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWF43Z	Revision of Infusion Device in Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWF47Z	Revision of Autologous Tissue Substitute in Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWF4JZ	Revision of Synthetic Substitute in Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWF4KZ	Revision of Nonautologous Tissue Substitute in Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWF4YZ	Revision of Other Device in Abdominal Wall, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWG00Z	Revision of Drainage Device in Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WWG01Z	Revision of Radioactive Element in Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WWG03Z	Revision of Infusion Device in Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WWG0JZ	Revision of Synthetic Substitute in Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WWG0YZ	Revision of Other Device in Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
0WWG30Z	Revision of Drainage Device in Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WWG33Z	Revision of Infusion Device in Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WWG3JZ	Revision of Synthetic Substitute in Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WWG3YZ	Revision of Other Device in Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
0WWG40Z	Revision of Drainage Device in Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWG41Z	Revision of Radioactive Element in Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
0WWG43Z	Revision of Infusion Device in Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWG4JZ	Revision of Synthetic Substitute in Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWG4YZ	Revision of Other Device in Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWP01Z	Revision of Radioactive Element in Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WWP03Z	Revision of Infusion Device in Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WWP0YZ	Revision of Other Device in Gastrointestinal Tract, Open Approach	Procedure	ICD-10-PCS
0WWP41Z	Revision of Radioactive Element in Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWP43Z	Revision of Infusion Device in Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0WWP4YZ	Revision of Other Device in Gastrointestinal Tract, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
10A00ZZ	Abortion of Products of Conception, Open Approach	Procedure	ICD-10-PCS
10A03ZZ	Abortion of Products of Conception, Percutaneous Approach	Procedure	ICD-10-PCS
10A04ZZ	Abortion of Products of Conception, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
10A07ZZ	Abortion of Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10A08ZZ	Abortion of Products of Conception, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
10D00Z0	Extraction of Products of Conception, High, Open Approach	Procedure	ICD-10-PCS
10D00Z1	Extraction of Products of Conception, Low, Open Approach	Procedure	ICD-10-PCS
10D00Z2	Extraction of Products of Conception, Extraperitoneal, Open Approach	Procedure	ICD-10-PCS
10D17Z9	Manual Extraction of Products of Conception, Retained, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D17ZZ	Extraction of Products of Conception, Retained, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D18Z9	Manual Extraction of Products of Conception, Retained, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
10D18ZZ	Extraction of Products of Conception, Retained, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
10D20ZZ	Extraction of Products of Conception, Ectopic, Open Approach	Procedure	ICD-10-PCS
10D24ZZ	Extraction of Products of Conception, Ectopic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
10D27ZZ	Extraction of Products of Conception, Ectopic, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D28ZZ	Extraction of Products of Conception, Ectopic, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
10H00YZ	Insertion of Other Device into Products of Conception, Open Approach	Procedure	ICD-10-PCS
10P00YZ	Removal of Other Device from Products of Conception, Open Approach	Procedure	ICD-10-PCS
10S20ZZ	Reposition Products of Conception, Ectopic, Open Approach	Procedure	ICD-10-PCS
10S23ZZ	Reposition Products of Conception, Ectopic, Percutaneous Approach	Procedure	ICD-10-PCS
10S24ZZ	Reposition Products of Conception, Ectopic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
10S27ZZ	Reposition Products of Conception, Ectopic, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10S28ZZ	Reposition Products of Conception, Ectopic, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
10T20ZZ	Resection of Products of Conception, Ectopic, Open Approach	Procedure	ICD-10-PCS
10T23ZZ	Resection of Products of Conception, Ectopic, Percutaneous Approach	Procedure	ICD-10-PCS
10T24ZZ	Resection of Products of Conception, Ectopic, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
10T27ZZ	Resection of Products of Conception, Ectopic, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10T28ZZ	Resection of Products of Conception, Ectopic, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
34710	Delayed placement of distal or proximal extension prosthesis for endovascular repair of infrarenal abdominal aortic or iliac aneurysm, false aneurysm, dissection, endoleak, or endograft migration, including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, and treatment zone angioplasty/stenting, when performed; initial vessel treated	Procedure	CPT-4
3E0M05Z	Introduction of Adhesion Barrier into Peritoneal Cavity, Open Approach	Procedure	ICD-10-PCS
3E0M45Z	Introduction of Adhesion Barrier into Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
3E0M4GC	Introduction of Other Therapeutic Substance into Peritoneal Cavity, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
3E0N4GC	Introduction of Other Therapeutic Substance into Male Reproductive, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
3E0P05Z	Introduction of Adhesion Barrier into Female Reproductive, Open Approach	Procedure	ICD-10-PCS
3E0P45Z	Introduction of Adhesion Barrier into Female Reproductive, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
3E0P4GC	Introduction of Other Therapeutic Substance into Female Reproductive, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
3E1M48Z	Irrigation of Peritoneal Cavity using Irrigating Substance, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
44120	Enterectomy, resection of small intestine; single resection and anastomosis	Procedure	CPT-4
44140	Colectomy, partial; with anastomosis	Procedure	CPT-4
44143	Colectomy, partial; with end colostomy and closure of distal segment (Hartmann type procedure)	Procedure	CPT-4
44145	Colectomy, partial; with coloproctostomy (low pelvic anastomosis)	Procedure	CPT-4
44160	Colectomy, partial, with removal of terminal ileum with ileocolostomy	Procedure	CPT-4
44204	Laparoscopy, surgical; colectomy, partial, with anastomosis	Procedure	CPT-4
44205	Laparoscopy, surgical; colectomy, partial, with removal of terminal ileum with ileocolostomy	Procedure	CPT-4
44207	Laparoscopy, surgical; colectomy, partial, with anastomosis, with coloproctostomy (low pelvic anastomosis)	Procedure	CPT-4
44970	Laparoscopy, surgical, appendectomy	Procedure	CPT-4
46930	Destruction of internal hemorrhoid(s) by thermal energy (eg, infrared coagulation, cautery, radiofrequency)	Procedure	CPT-4
47562	Laparoscopy, surgical; cholecystectomy	Procedure	CPT-4
47563	Laparoscopy, surgical; cholecystectomy with cholangiography	Procedure	CPT-4
47600	Cholecystectomy;	Procedure	CPT-4
49505	Repair initial inguinal hernia, age 5 years or older; reducible	Procedure	CPT-4

Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Procedure Codes Used to Define Outcomes in this Request

Code	Description	Code Category	Code Type
49507	Repair initial inguinal hernia, age 5 years or older; incarcerated or strangulated	Procedure	CPT-4
49650	Laparoscopy, surgical; repair initial inguinal hernia	Procedure	CPT-4
50360	Renal allotransplantation, implantation of graft; without recipient nephrectomy	Procedure	CPT-4
6ABF0BZ	Perfusion of Hepatobiliary System and Pancreas Donor Organ, Single	Procedure	ICD-10-PCS
DDY0KZZ	Laser Interstitial Thermal Therapy of Esophagus	Procedure	ICD-10-PCS
DDY1KZZ	Laser Interstitial Thermal Therapy of Stomach	Procedure	ICD-10-PCS
DDY2KZZ	Laser Interstitial Thermal Therapy of Duodenum	Procedure	ICD-10-PCS
DDY3KZZ	Laser Interstitial Thermal Therapy of Jejunum	Procedure	ICD-10-PCS
DDY4KZZ	Laser Interstitial Thermal Therapy of Ileum	Procedure	ICD-10-PCS
DDY5KZZ	Laser Interstitial Thermal Therapy of Colon	Procedure	ICD-10-PCS
DDY7KZZ	Laser Interstitial Thermal Therapy of Rectum	Procedure	ICD-10-PCS
DDY8KZZ	Laser Interstitial Thermal Therapy of Anus	Procedure	ICD-10-PCS
DFY0KZZ	Laser Interstitial Thermal Therapy of Liver	Procedure	ICD-10-PCS
DFY1KZZ	Laser Interstitial Thermal Therapy of Gallbladder	Procedure	ICD-10-PCS
DFY2KZZ	Laser Interstitial Thermal Therapy of Bile Ducts	Procedure	ICD-10-PCS
DFY3KZZ	Laser Interstitial Thermal Therapy of Pancreas	Procedure	ICD-10-PCS
DGY2KZZ	Laser Interstitial Thermal Therapy of Adrenal Glands	Procedure	ICD-10-PCS
X051329	Destruction of Renal Sympathetic Nerve(s) using Ultrasound Ablation, Percutaneous Approach, New Technology Group 9	Procedure	ICD-10-PCS
X05133A	Destruction of Renal Sympathetic Nerve(s) using Radiofrequency Ablation, Percutaneous Approach, New Technology Group 10	Procedure	ICD-10-PCS
X2CP3T7	Extirpation of Matter from Abdominal Aorta using Computer-aided Mechanical Aspiration, Percutaneous Approach, New Technology Group 7	Procedure	ICD-10-PCS
X2VE3SA	Restriction of Descending Thoracic Aorta and Abdominal Aorta using Branched Intraluminal Device, Manufactured Integrated System, Four or More Arteries, Percutaneous Approach, New Technology Group 10	Procedure	ICD-10-PCS

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
	Enteritis/Colitis		
K50	Crohn's disease [regional enteritis]	Diagnosis	ICD-10-CM
K50.0	Crohn's disease of small intestine	Diagnosis	ICD-10-CM
K50.00	Crohn's disease of small intestine without complications	Diagnosis	ICD-10-CM
K50.01	Crohn's disease of small intestine with complications	Diagnosis	ICD-10-CM
K50.011	Crohn's disease of small intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.012	Crohn's disease of small intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.013	Crohn's disease of small intestine with fistula	Diagnosis	ICD-10-CM
K50.014	Crohn's disease of small intestine with abscess	Diagnosis	ICD-10-CM
K50.018	Crohn's disease of small intestine with other complication	Diagnosis	ICD-10-CM
K50.019	Crohn's disease of small intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.1	Crohn's disease of large intestine	Diagnosis	ICD-10-CM
K50.10	Crohn's disease of large intestine without complications	Diagnosis	ICD-10-CM
K50.11	Crohn's disease of large intestine with complications	Diagnosis	ICD-10-CM
K50.111	Crohn's disease of large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.112	Crohn's disease of large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.113	Crohn's disease of large intestine with fistula	Diagnosis	ICD-10-CM
K50.114	Crohn's disease of large intestine with abscess	Diagnosis	ICD-10-CM
K50.118	Crohn's disease of large intestine with other complication	Diagnosis	ICD-10-CM
K50.119	Crohn's disease of large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.8	Crohn's disease of both small and large intestine	Diagnosis	ICD-10-CM
K50.80	Crohn's disease of both small and large intestine without complications	Diagnosis	ICD-10-CM
K50.81	Crohn's disease of both small and large intestine with complications	Diagnosis	ICD-10-CM
K50.811	Crohn's disease of both small and large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.812	Crohn's disease of both small and large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.813	Crohn's disease of both small and large intestine with fistula	Diagnosis	ICD-10-CM
K50.814	Crohn's disease of both small and large intestine with abscess	Diagnosis	ICD-10-CM
K50.818	Crohn's disease of both small and large intestine with other complication	Diagnosis	ICD-10-CM
K50.819	Crohn's disease of both small and large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.9	Crohn's disease, unspecified	Diagnosis	ICD-10-CM
K50.90	Crohn's disease, unspecified, without complications	Diagnosis	ICD-10-CM
K50.91	Crohn's disease, unspecified, with complications	Diagnosis	ICD-10-CM
K50.911	Crohn's disease, unspecified, with rectal bleeding	Diagnosis	ICD-10-CM
K50.912	Crohn's disease, unspecified, with intestinal obstruction	Diagnosis	ICD-10-CM
K50.913	Crohn's disease, unspecified, with fistula	Diagnosis	ICD-10-CM
K50.914	Crohn's disease, unspecified, with abscess	Diagnosis	ICD-10-CM
K50.918	Crohn's disease, unspecified, with other complication	Diagnosis	ICD-10-CM
K50.919	Crohn's disease, unspecified, with unspecified complications	Diagnosis	ICD-10-CM
K51	Ulcerative colitis	Diagnosis	ICD-10-CM
K51.0	Ulcerative (chronic) pancolitis	Diagnosis	ICD-10-CM
K51.00	Ulcerative (chronic) pancolitis without complications	Diagnosis	ICD-10-CM
K51.01	Ulcerative (chronic) pancolitis with complications	Diagnosis	ICD-10-CM
K51.011	Ulcerative (chronic) pancolitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.012	Ulcerative (chronic) pancolitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.013	Ulcerative (chronic) pancolitis with fistula	Diagnosis	ICD-10-CM
K51.014	Ulcerative (chronic) pancolitis with abscess	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
K51.018	Ulcerative (chronic) pancolitis with other complication	Diagnosis	ICD-10-CM
K51.019	Ulcerative (chronic) pancolitis with unspecified complications	Diagnosis	ICD-10-CM
K51.2	Ulcerative (chronic) proctitis	Diagnosis	ICD-10-CM
K51.20	Ulcerative (chronic) proctitis without complications	Diagnosis	ICD-10-CM
K51.21	Ulcerative (chronic) proctitis with complications	Diagnosis	ICD-10-CM
K51.211	Ulcerative (chronic) proctitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.212	Ulcerative (chronic) proctitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.213	Ulcerative (chronic) proctitis with fistula	Diagnosis	ICD-10-CM
K51.214	Ulcerative (chronic) proctitis with abscess	Diagnosis	ICD-10-CM
K51.218	Ulcerative (chronic) proctitis with other complication	Diagnosis	ICD-10-CM
K51.219	Ulcerative (chronic) proctitis with unspecified complications	Diagnosis	ICD-10-CM
K51.3	Ulcerative (chronic) rectosigmoiditis	Diagnosis	ICD-10-CM
K51.30	Ulcerative (chronic) rectosigmoiditis without complications	Diagnosis	ICD-10-CM
K51.31	Ulcerative (chronic) rectosigmoiditis with complications	Diagnosis	ICD-10-CM
K51.311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding	Diagnosis	ICD-10-CM
K51.312	Ulcerative (chronic) rectosigmoiditis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.313	Ulcerative (chronic) rectosigmoiditis with fistula	Diagnosis	ICD-10-CM
K51.314	Ulcerative (chronic) rectosigmoiditis with abscess	Diagnosis	ICD-10-CM
K51.318	Ulcerative (chronic) rectosigmoiditis with other complication	Diagnosis	ICD-10-CM
K51.319	Ulcerative (chronic) rectosigmoiditis with unspecified complications	Diagnosis	ICD-10-CM
K51.4	Inflammatory polyps of colon	Diagnosis	ICD-10-CM
K51.40	Inflammatory polyps of colon without complications	Diagnosis	ICD-10-CM
K51.41	Inflammatory polyps of colon with complications	Diagnosis	ICD-10-CM
K51.411	Inflammatory polyps of colon with rectal bleeding	Diagnosis	ICD-10-CM
K51.412	Inflammatory polyps of colon with intestinal obstruction	Diagnosis	ICD-10-CM
K51.413	Inflammatory polyps of colon with fistula	Diagnosis	ICD-10-CM
K51.414	Inflammatory polyps of colon with abscess	Diagnosis	ICD-10-CM
K51.418	Inflammatory polyps of colon with other complication	Diagnosis	ICD-10-CM
K51.419	Inflammatory polyps of colon with unspecified complications	Diagnosis	ICD-10-CM
K51.5	Left sided colitis	Diagnosis	ICD-10-CM
K51.50	Left sided colitis without complications	Diagnosis	ICD-10-CM
K51.51	Left sided colitis with complications	Diagnosis	ICD-10-CM
K51.511	Left sided colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.512	Left sided colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.513	Left sided colitis with fistula	Diagnosis	ICD-10-CM
K51.514	Left sided colitis with abscess	Diagnosis	ICD-10-CM
K51.518	Left sided colitis with other complication	Diagnosis	ICD-10-CM
K51.519	Left sided colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.8	Other ulcerative colitis	Diagnosis	ICD-10-CM
K51.80	Other ulcerative colitis without complications	Diagnosis	ICD-10-CM
K51.81	Other ulcerative colitis with complications	Diagnosis	ICD-10-CM
K51.811	Other ulcerative colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.812	Other ulcerative colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.813	Other ulcerative colitis with fistula	Diagnosis	ICD-10-CM
K51.814	Other ulcerative colitis with abscess	Diagnosis	ICD-10-CM
K51.818	Other ulcerative colitis with other complication	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
K51.819	Other ulcerative colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.9	Ulcerative colitis, unspecified	Diagnosis	ICD-10-CM
K51.90	Ulcerative colitis, unspecified, without complications	Diagnosis	ICD-10-CM
K51.91	Ulcerative colitis, unspecified, with complications	Diagnosis	ICD-10-CM
K51.911	Ulcerative colitis, unspecified with rectal bleeding	Diagnosis	ICD-10-CM
K51.912	Ulcerative colitis, unspecified with intestinal obstruction	Diagnosis	ICD-10-CM
K51.913	Ulcerative colitis, unspecified with fistula	Diagnosis	ICD-10-CM
K51.914	Ulcerative colitis, unspecified with abscess	Diagnosis	ICD-10-CM
K51.918	Ulcerative colitis, unspecified with other complication	Diagnosis	ICD-10-CM
K51.919	Ulcerative colitis, unspecified with unspecified complications	Diagnosis	ICD-10-CM
K52	Other and unspecified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.0	Gastroenteritis and colitis due to radiation	Diagnosis	ICD-10-CM
K52.1	Toxic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.2	Allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.21	Food protein-induced enterocolitis syndrome	Diagnosis	ICD-10-CM
K52.22	Food protein-induced enteropathy	Diagnosis	ICD-10-CM
K52.29	Other allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.3	Indeterminate colitis	Diagnosis	ICD-10-CM
K52.8	Other specified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.81	Eosinophilic gastritis or gastroenteritis	Diagnosis	ICD-10-CM
K52.82	Eosinophilic colitis	Diagnosis	ICD-10-CM
K52.83	Microscopic colitis	Diagnosis	ICD-10-CM
K52.831	Collagenous colitis	Diagnosis	ICD-10-CM
K52.832	Lymphocytic colitis	Diagnosis	ICD-10-CM
K52.838	Other microscopic colitis	Diagnosis	ICD-10-CM
K52.839	Microscopic colitis, unspecified	Diagnosis	ICD-10-CM
K52.89	Other specified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.9	Noninfective gastroenteritis and colitis, unspecified	Diagnosis	ICD-10-CM
	Irritable Bowel Syndrome		
K58	Irritable bowel syndrome	Diagnosis	ICD-10-CM
K58.0	Irritable bowel syndrome with diarrhea	Diagnosis	ICD-10-CM
K58.1	Irritable bowel syndrome with constipation	Diagnosis	ICD-10-CM
K58.2	Mixed irritable bowel syndrome	Diagnosis	ICD-10-CM
K58.8	Other irritable bowel syndrome	Diagnosis	ICD-10-CM
K58.9	Irritable bowel syndrome, unspecified	Diagnosis	ICD-10-CM
	Other Functional Intestinal Disorders		
K59	Other functional intestinal disorders	Diagnosis	ICD-10-CM
K59.0	Constipation	Diagnosis	ICD-10-CM
K59.00	Constipation, unspecified	Diagnosis	ICD-10-CM
K59.01	Slow transit constipation	Diagnosis	ICD-10-CM
K59.02	Outlet dysfunction constipation	Diagnosis	ICD-10-CM
K59.03	Drug induced constipation	Diagnosis	ICD-10-CM
K59.04	Chronic idiopathic constipation	Diagnosis	ICD-10-CM
K59.09	Other constipation	Diagnosis	ICD-10-CM
K59.1	Functional diarrhea	Diagnosis	ICD-10-CM
K59.2	Neurogenic bowel, not elsewhere classified	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
K59.3	Megacolon, not elsewhere classified	Diagnosis	ICD-10-CM
K59.31	Toxic megacolon	Diagnosis	ICD-10-CM
K59.39	Other megacolon	Diagnosis	ICD-10-CM
K59.4	Anal spasm	Diagnosis	ICD-10-CM
K59.8	Other specified functional intestinal disorders	Diagnosis	ICD-10-CM
K59.81	Ogilvie syndrome	Diagnosis	ICD-10-CM
K59.89	Other specified functional intestinal disorders	Diagnosis	ICD-10-CM
K59.9	Functional intestinal disorder, unspecified	Diagnosis	ICD-10-CM
	Traumatic Brain Injury		
S01	Open wound of head	Diagnosis	ICD-10-CM
S01.0	Open wound of scalp	Diagnosis	ICD-10-CM
S01.00	Unspecified open wound of scalp	Diagnosis	ICD-10-CM
S01.00XA	Unspecified open wound of scalp, initial encounter	Diagnosis	ICD-10-CM
S01.01	Laceration without foreign body of scalp	Diagnosis	ICD-10-CM
S01.01XA	Laceration without foreign body of scalp, initial encounter	Diagnosis	ICD-10-CM
S01.02	Laceration with foreign body of scalp	Diagnosis	ICD-10-CM
S01.02XA	Laceration with foreign body of scalp, initial encounter	Diagnosis	ICD-10-CM
S01.03	Puncture wound without foreign body of scalp	Diagnosis	ICD-10-CM
S01.03XA	Puncture wound without foreign body of scalp, initial encounter	Diagnosis	ICD-10-CM
S01.04	Puncture wound with foreign body of scalp	Diagnosis	ICD-10-CM
S01.04XA	Puncture wound with foreign body of scalp, initial encounter	Diagnosis	ICD-10-CM
S01.05	Open bite of scalp	Diagnosis	ICD-10-CM
S01.05XA	Open bite of scalp, initial encounter	Diagnosis	ICD-10-CM
S01.1	Open wound of eyelid and periocular area	Diagnosis	ICD-10-CM
S01.10	Unspecified open wound of eyelid and periocular area	Diagnosis	ICD-10-CM
S01.101	Unspecified open wound of right eyelid and periocular area	Diagnosis	ICD-10-CM
S01.101A	Unspecified open wound of right eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.102	Unspecified open wound of left eyelid and periocular area	Diagnosis	ICD-10-CM
S01.102A	Unspecified open wound of left eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.109	Unspecified open wound of unspecified eyelid and periocular area	Diagnosis	ICD-10-CM
S01.109A	Unspecified open wound of unspecified eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.11	Laceration without foreign body of eyelid and periocular area	Diagnosis	ICD-10-CM
S01.111	Laceration without foreign body of right eyelid and periocular area	Diagnosis	ICD-10-CM
S01.111A	Laceration without foreign body of right eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.112	Laceration without foreign body of left eyelid and periocular area	Diagnosis	ICD-10-CM
S01.112A	Laceration without foreign body of left eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.119	Laceration without foreign body of unspecified eyelid and periocular area	Diagnosis	ICD-10-CM
S01.119A	Laceration without foreign body of unspecified eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.12	Laceration with foreign body of eyelid and periocular area	Diagnosis	ICD-10-CM
S01.121	Laceration with foreign body of right eyelid and periocular area	Diagnosis	ICD-10-CM
S01.121A	Laceration with foreign body of right eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.122	Laceration with foreign body of left eyelid and periocular area	Diagnosis	ICD-10-CM
S01.122A	Laceration with foreign body of left eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S01.129	Laceration with foreign body of unspecified eyelid and periocular area	Diagnosis	ICD-10-CM
S01.129A	Laceration with foreign body of unspecified eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.13	Puncture wound without foreign body of eyelid and periocular area	Diagnosis	ICD-10-CM
S01.131	Puncture wound without foreign body of right eyelid and periocular area	Diagnosis	ICD-10-CM
S01.131A	Puncture wound without foreign body of right eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.132	Puncture wound without foreign body of left eyelid and periocular area	Diagnosis	ICD-10-CM
S01.132A	Puncture wound without foreign body of left eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.139	Puncture wound without foreign body of unspecified eyelid and periocular area	Diagnosis	ICD-10-CM
S01.139A	Puncture wound without foreign body of unspecified eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.14	Puncture wound with foreign body of eyelid and periocular area	Diagnosis	ICD-10-CM
S01.141	Puncture wound with foreign body of right eyelid and periocular area	Diagnosis	ICD-10-CM
S01.141A	Puncture wound with foreign body of right eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.142	Puncture wound with foreign body of left eyelid and periocular area	Diagnosis	ICD-10-CM
S01.142A	Puncture wound with foreign body of left eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.149	Puncture wound with foreign body of unspecified eyelid and periocular area	Diagnosis	ICD-10-CM
S01.149A	Puncture wound with foreign body of unspecified eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.15	Open bite of eyelid and periocular area	Diagnosis	ICD-10-CM
S01.151	Open bite of right eyelid and periocular area	Diagnosis	ICD-10-CM
S01.151A	Open bite of right eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.152	Open bite of left eyelid and periocular area	Diagnosis	ICD-10-CM
S01.152A	Open bite of left eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.159	Open bite of unspecified eyelid and periocular area	Diagnosis	ICD-10-CM
S01.159A	Open bite of unspecified eyelid and periocular area, initial encounter	Diagnosis	ICD-10-CM
S01.2	Open wound of nose	Diagnosis	ICD-10-CM
S01.20	Unspecified open wound of nose	Diagnosis	ICD-10-CM
S01.20XA	Unspecified open wound of nose, initial encounter	Diagnosis	ICD-10-CM
S01.21	Laceration without foreign body of nose	Diagnosis	ICD-10-CM
S01.21XA	Laceration without foreign body of nose, initial encounter	Diagnosis	ICD-10-CM
S01.22	Laceration with foreign body of nose	Diagnosis	ICD-10-CM
S01.22XA	Laceration with foreign body of nose, initial encounter	Diagnosis	ICD-10-CM
S01.23	Puncture wound without foreign body of nose	Diagnosis	ICD-10-CM
S01.23XA	Puncture wound without foreign body of nose, initial encounter	Diagnosis	ICD-10-CM
S01.24	Puncture wound with foreign body of nose	Diagnosis	ICD-10-CM
S01.24XA	Puncture wound with foreign body of nose, initial encounter	Diagnosis	ICD-10-CM
S01.25	Open bite of nose	Diagnosis	ICD-10-CM
S01.25XA	Open bite of nose, initial encounter	Diagnosis	ICD-10-CM
S01.3	Open wound of ear	Diagnosis	ICD-10-CM
S01.30	Unspecified open wound of ear	Diagnosis	ICD-10-CM
S01.301	Unspecified open wound of right ear	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S01.301A	Unspecified open wound of right ear, initial encounter	Diagnosis	ICD-10-CM
S01.302	Unspecified open wound of left ear	Diagnosis	ICD-10-CM
S01.302A	Unspecified open wound of left ear, initial encounter	Diagnosis	ICD-10-CM
S01.309	Unspecified open wound of unspecified ear	Diagnosis	ICD-10-CM
S01.309A	Unspecified open wound of unspecified ear, initial encounter	Diagnosis	ICD-10-CM
S01.31	Laceration without foreign body of ear	Diagnosis	ICD-10-CM
S01.311	Laceration without foreign body of right ear	Diagnosis	ICD-10-CM
S01.311A	Laceration without foreign body of right ear, initial encounter	Diagnosis	ICD-10-CM
S01.312	Laceration without foreign body of left ear	Diagnosis	ICD-10-CM
S01.312A	Laceration without foreign body of left ear, initial encounter	Diagnosis	ICD-10-CM
S01.319	Laceration without foreign body of unspecified ear	Diagnosis	ICD-10-CM
S01.319A	Laceration without foreign body of unspecified ear, initial encounter	Diagnosis	ICD-10-CM
S01.32	Laceration with foreign body of ear	Diagnosis	ICD-10-CM
S01.321	Laceration with foreign body of right ear	Diagnosis	ICD-10-CM
S01.321A	Laceration with foreign body of right ear, initial encounter	Diagnosis	ICD-10-CM
S01.322	Laceration with foreign body of left ear	Diagnosis	ICD-10-CM
S01.322A	Laceration with foreign body of left ear, initial encounter	Diagnosis	ICD-10-CM
S01.329	Laceration with foreign body of unspecified ear	Diagnosis	ICD-10-CM
S01.329A	Laceration with foreign body of unspecified ear, initial encounter	Diagnosis	ICD-10-CM
S01.33	Puncture wound without foreign body of ear	Diagnosis	ICD-10-CM
S01.331	Puncture wound without foreign body of right ear	Diagnosis	ICD-10-CM
S01.331A	Puncture wound without foreign body of right ear, initial encounter	Diagnosis	ICD-10-CM
S01.332	Puncture wound without foreign body of left ear	Diagnosis	ICD-10-CM
S01.332A	Puncture wound without foreign body of left ear, initial encounter	Diagnosis	ICD-10-CM
S01.339	Puncture wound without foreign body of unspecified ear	Diagnosis	ICD-10-CM
S01.339A	Puncture wound without foreign body of unspecified ear, initial encounter	Diagnosis	ICD-10-CM
S01.34	Puncture wound with foreign body of ear	Diagnosis	ICD-10-CM
S01.341	Puncture wound with foreign body of right ear	Diagnosis	ICD-10-CM
S01.341A	Puncture wound with foreign body of right ear, initial encounter	Diagnosis	ICD-10-CM
S01.342	Puncture wound with foreign body of left ear	Diagnosis	ICD-10-CM
S01.342A	Puncture wound with foreign body of left ear, initial encounter	Diagnosis	ICD-10-CM
S01.349	Puncture wound with foreign body of unspecified ear	Diagnosis	ICD-10-CM
S01.349A	Puncture wound with foreign body of unspecified ear, initial encounter	Diagnosis	ICD-10-CM
S01.35	Open bite of ear	Diagnosis	ICD-10-CM
S01.351	Open bite of right ear	Diagnosis	ICD-10-CM
S01.351A	Open bite of right ear, initial encounter	Diagnosis	ICD-10-CM
S01.352	Open bite of left ear	Diagnosis	ICD-10-CM
S01.352A	Open bite of left ear, initial encounter	Diagnosis	ICD-10-CM
S01.359	Open bite of unspecified ear	Diagnosis	ICD-10-CM
S01.359A	Open bite of unspecified ear, initial encounter	Diagnosis	ICD-10-CM
S01.4	Open wound of cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.40	Unspecified open wound of cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.401	Unspecified open wound of right cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.401A	Unspecified open wound of right cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.402	Unspecified open wound of left cheek and temporomandibular area	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S01.402A	Unspecified open wound of left cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.409	Unspecified open wound of unspecified cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.409A	Unspecified open wound of unspecified cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.41	Laceration without foreign body of cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.411	Laceration without foreign body of right cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.411A	Laceration without foreign body of right cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.412	Laceration without foreign body of left cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.412A	Laceration without foreign body of left cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.419	Laceration without foreign body of unspecified cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.419A	Laceration without foreign body of unspecified cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.42	Laceration with foreign body of cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.421	Laceration with foreign body of right cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.421A	Laceration with foreign body of right cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.422	Laceration with foreign body of left cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.422A	Laceration with foreign body of left cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.429	Laceration with foreign body of unspecified cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.429A	Laceration with foreign body of unspecified cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.43	Puncture wound without foreign body of cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.431	Puncture wound without foreign body of right cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.431A	Puncture wound without foreign body of right cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.432	Puncture wound without foreign body of left cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.432A	Puncture wound without foreign body of left cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.439	Puncture wound without foreign body of unspecified cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.439A	Puncture wound without foreign body of unspecified cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.44	Puncture wound with foreign body of cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.441	Puncture wound with foreign body of right cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.441A	Puncture wound with foreign body of right cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.442	Puncture wound with foreign body of left cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.442A	Puncture wound with foreign body of left cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.449	Puncture wound with foreign body of unspecified cheek and temporomandibular area	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S01.449A	Puncture wound with foreign body of unspecified cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.45	Open bite of cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.451	Open bite of right cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.451A	Open bite of right cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.452	Open bite of left cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.452A	Open bite of left cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.459	Open bite of unspecified cheek and temporomandibular area	Diagnosis	ICD-10-CM
S01.459A	Open bite of unspecified cheek and temporomandibular area, initial encounter	Diagnosis	ICD-10-CM
S01.5	Open wound of lip and oral cavity	Diagnosis	ICD-10-CM
S01.50	Unspecified open wound of lip and oral cavity	Diagnosis	ICD-10-CM
S01.501	Unspecified open wound of lip	Diagnosis	ICD-10-CM
S01.501A	Unspecified open wound of lip, initial encounter	Diagnosis	ICD-10-CM
S01.502	Unspecified open wound of oral cavity	Diagnosis	ICD-10-CM
S01.502A	Unspecified open wound of oral cavity, initial encounter	Diagnosis	ICD-10-CM
S01.51	Laceration of lip and oral cavity without foreign body	Diagnosis	ICD-10-CM
S01.511	Laceration without foreign body of lip	Diagnosis	ICD-10-CM
S01.511A	Laceration without foreign body of lip, initial encounter	Diagnosis	ICD-10-CM
S01.512	Laceration without foreign body of oral cavity	Diagnosis	ICD-10-CM
S01.512A	Laceration without foreign body of oral cavity, initial encounter	Diagnosis	ICD-10-CM
S01.52	Laceration of lip and oral cavity with foreign body	Diagnosis	ICD-10-CM
S01.521	Laceration with foreign body of lip	Diagnosis	ICD-10-CM
S01.521A	Laceration with foreign body of lip, initial encounter	Diagnosis	ICD-10-CM
S01.522	Laceration with foreign body of oral cavity	Diagnosis	ICD-10-CM
S01.522A	Laceration with foreign body of oral cavity, initial encounter	Diagnosis	ICD-10-CM
S01.53	Puncture wound of lip and oral cavity without foreign body	Diagnosis	ICD-10-CM
S01.531	Puncture wound without foreign body of lip	Diagnosis	ICD-10-CM
S01.531A	Puncture wound without foreign body of lip, initial encounter	Diagnosis	ICD-10-CM
S01.532	Puncture wound without foreign body of oral cavity	Diagnosis	ICD-10-CM
S01.532A	Puncture wound without foreign body of oral cavity, initial encounter	Diagnosis	ICD-10-CM
S01.54	Puncture wound of lip and oral cavity with foreign body	Diagnosis	ICD-10-CM
S01.541	Puncture wound with foreign body of lip	Diagnosis	ICD-10-CM
S01.541A	Puncture wound with foreign body of lip, initial encounter	Diagnosis	ICD-10-CM
S01.542	Puncture wound with foreign body of oral cavity	Diagnosis	ICD-10-CM
S01.542A	Puncture wound with foreign body of oral cavity, initial encounter	Diagnosis	ICD-10-CM
S01.55	Open bite of lip and oral cavity	Diagnosis	ICD-10-CM
S01.551	Open bite of lip	Diagnosis	ICD-10-CM
S01.551A	Open bite of lip, initial encounter	Diagnosis	ICD-10-CM
S01.552	Open bite of oral cavity	Diagnosis	ICD-10-CM
S01.552A	Open bite of oral cavity, initial encounter	Diagnosis	ICD-10-CM
S01.8	Open wound of other parts of head	Diagnosis	ICD-10-CM
S01.80	Unspecified open wound of other part of head	Diagnosis	ICD-10-CM
S01.80XA	Unspecified open wound of other part of head, initial encounter	Diagnosis	ICD-10-CM
S01.81	Laceration without foreign body of other part of head	Diagnosis	ICD-10-CM
S01.81XA	Laceration without foreign body of other part of head, initial encounter	Diagnosis	ICD-10-CM
S01.82	Laceration with foreign body of other part of head	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S01.82XA	Laceration with foreign body of other part of head, initial encounter	Diagnosis	ICD-10-CM
S01.83	Puncture wound without foreign body of other part of head	Diagnosis	ICD-10-CM
S01.83XA	Puncture wound without foreign body of other part of head, initial encounter	Diagnosis	ICD-10-CM
S01.84	Puncture wound with foreign body of other part of head	Diagnosis	ICD-10-CM
S01.84XA	Puncture wound with foreign body of other part of head, initial encounter	Diagnosis	ICD-10-CM
S01.85	Open bite of other part of head	Diagnosis	ICD-10-CM
S01.85XA	Open bite of other part of head, initial encounter	Diagnosis	ICD-10-CM
S01.9	Open wound of unspecified part of head	Diagnosis	ICD-10-CM
S01.90	Unspecified open wound of unspecified part of head	Diagnosis	ICD-10-CM
S01.90XA	Unspecified open wound of unspecified part of head, initial encounter	Diagnosis	ICD-10-CM
S01.91	Laceration without foreign body of unspecified part of head	Diagnosis	ICD-10-CM
S01.91XA	Laceration without foreign body of unspecified part of head, initial encounter	Diagnosis	ICD-10-CM
S01.92	Laceration with foreign body of unspecified part of head	Diagnosis	ICD-10-CM
S01.92XA	Laceration with foreign body of unspecified part of head, initial encounter	Diagnosis	ICD-10-CM
S01.93	Puncture wound without foreign body of unspecified part of head	Diagnosis	ICD-10-CM
S01.93XA	Puncture wound without foreign body of unspecified part of head, initial encounter	Diagnosis	ICD-10-CM
S01.94	Puncture wound with foreign body of unspecified part of head	Diagnosis	ICD-10-CM
S01.94XA	Puncture wound with foreign body of unspecified part of head, initial encounter	Diagnosis	ICD-10-CM
S01.95	Open bite of unspecified part of head	Diagnosis	ICD-10-CM
S01.95XA	Open bite of unspecified part of head, initial encounter	Diagnosis	ICD-10-CM
S02	Fracture of skull and facial bones	Diagnosis	ICD-10-CM
S02.0	Fracture of vault of skull	Diagnosis	ICD-10-CM
S02.0XXA	Fracture of vault of skull, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.0XXB	Fracture of vault of skull, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.0XXG	Fracture of vault of skull, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.0XXK	Fracture of vault of skull, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.1	Fracture of base of skull	Diagnosis	ICD-10-CM
S02.10	Unspecified fracture of base of skull	Diagnosis	ICD-10-CM
S02.101	Fracture of base of skull, right side	Diagnosis	ICD-10-CM
S02.101A	Fracture of base of skull, right side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.101B	Fracture of base of skull, right side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.101G	Fracture of base of skull, right side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.101K	Fracture of base of skull, right side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.102	Fracture of base of skull, left side	Diagnosis	ICD-10-CM
S02.102A	Fracture of base of skull, left side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.102B	Fracture of base of skull, left side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.102G	Fracture of base of skull, left side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.102K	Fracture of base of skull, left side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.109	Fracture of base of skull, unspecified side	Diagnosis	ICD-10-CM
S02.109A	Fracture of base of skull, unspecified side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.109B	Fracture of base of skull, unspecified side, initial encounter for open fracture	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S02.109G	Fracture of base of skull, unspecified side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.109K	Fracture of base of skull, unspecified side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.10XA	Unspecified fracture of base of skull, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.10XB	Unspecified fracture of base of skull, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.10XG	Unspecified fracture of base of skull, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.10XK	Unspecified fracture of base of skull, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.11	Fracture of occiput	Diagnosis	ICD-10-CM
S02.110	Type I occipital condyle fracture, unspecified side	Diagnosis	ICD-10-CM
S02.110A	Type I occipital condyle fracture, unspecified side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.110B	Type I occipital condyle fracture, unspecified side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.110G	Type I occipital condyle fracture, unspecified side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.110K	Type I occipital condyle fracture, unspecified side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.111	Type II occipital condyle fracture, unspecified side	Diagnosis	ICD-10-CM
S02.111A	Type II occipital condyle fracture, unspecified side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.111B	Type II occipital condyle fracture, unspecified side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.111G	Type II occipital condyle fracture, unspecified side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.111K	Type II occipital condyle fracture, unspecified side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.112	Type III occipital condyle fracture, unspecified side	Diagnosis	ICD-10-CM
S02.112A	Type III occipital condyle fracture, unspecified side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.112B	Type III occipital condyle fracture, unspecified side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.112G	Type III occipital condyle fracture, unspecified side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.112K	Type III occipital condyle fracture, unspecified side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.113	Unspecified occipital condyle fracture	Diagnosis	ICD-10-CM
S02.113A	Unspecified occipital condyle fracture, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.113B	Unspecified occipital condyle fracture, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.113G	Unspecified occipital condyle fracture, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.113K	Unspecified occipital condyle fracture, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.118	Other fracture of occiput, unspecified side	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S02.118A	Other fracture of occiput, unspecified side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.118B	Other fracture of occiput, unspecified side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.118G	Other fracture of occiput, unspecified side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.118K	Other fracture of occiput, unspecified side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.119	Unspecified fracture of occiput	Diagnosis	ICD-10-CM
S02.119A	Unspecified fracture of occiput, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.119B	Unspecified fracture of occiput, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.119G	Unspecified fracture of occiput, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.119K	Unspecified fracture of occiput, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.11A	Type I occipital condyle fracture, right side	Diagnosis	ICD-10-CM
S02.11AA	Type I occipital condyle fracture, right side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.11AB	Type I occipital condyle fracture, right side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.11AG	Type I occipital condyle fracture, right side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.11AK	Type I occipital condyle fracture, right side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.11AS	Type I occipital condyle fracture, right side, sequela	Diagnosis	ICD-10-CM
S02.11B	Type I occipital condyle fracture, left side	Diagnosis	ICD-10-CM
S02.11BA	Type I occipital condyle fracture, left side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.11BB	Type I occipital condyle fracture, left side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.11BG	Type I occipital condyle fracture, left side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.11BK	Type I occipital condyle fracture, left side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.11BS	Type I occipital condyle fracture, left side, sequela	Diagnosis	ICD-10-CM
S02.11C	Type II occipital condyle fracture, right side	Diagnosis	ICD-10-CM
S02.11CA	Type II occipital condyle fracture, right side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.11CB	Type II occipital condyle fracture, right side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.11CG	Type II occipital condyle fracture, right side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.11CK	Type II occipital condyle fracture, right side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.11CS	Type II occipital condyle fracture, right side, sequela	Diagnosis	ICD-10-CM
S02.11E	Type III occipital condyle fracture, right side	Diagnosis	ICD-10-CM
S02.11EA	Type III occipital condyle fracture, right side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.11EB	Type III occipital condyle fracture, right side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.11EG	Type III occipital condyle fracture, right side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.11EK	Type III occipital condyle fracture, right side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.11ES	Type III occipital condyle fracture, right side, sequela	Diagnosis	ICD-10-CM
S02.11F	Type III occipital condyle fracture, left side	Diagnosis	ICD-10-CM
S02.11FA	Type III occipital condyle fracture, left side, initial encounter for closed fracture	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S02.11FB	Type III occipital condyle fracture, left side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.11FG	Type III occipital condyle fracture, left side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.11FK	Type III occipital condyle fracture, left side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.11FS	Type III occipital condyle fracture, left side, sequela	Diagnosis	ICD-10-CM
S02.11G	Other fracture of occiput, right side	Diagnosis	ICD-10-CM
S02.11GA	Other fracture of occiput, right side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.11GB	Other fracture of occiput, right side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.11GG	Other fracture of occiput, right side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.11GK	Other fracture of occiput, right side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.11GS	Other fracture of occiput, right side, sequela	Diagnosis	ICD-10-CM
S02.11H	Other fracture of occiput, left side	Diagnosis	ICD-10-CM
S02.11HA	Other fracture of occiput, left side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.11HB	Other fracture of occiput, left side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.11HG	Other fracture of occiput, left side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.11HK	Other fracture of occiput, left side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.11HS	Other fracture of occiput, left side, sequela	Diagnosis	ICD-10-CM
S02.12	Fracture of orbital roof	Diagnosis	ICD-10-CM
S02.121	Fracture of orbital roof, right side	Diagnosis	ICD-10-CM
S02.121A	Fracture of orbital roof, right side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.121B	Fracture of orbital roof, right side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.121G	Fracture of orbital roof, right side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.121K	Fracture of orbital roof, right side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.122	Fracture of orbital roof, left side	Diagnosis	ICD-10-CM
S02.122A	Fracture of orbital roof, left side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.122B	Fracture of orbital roof, left side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.122G	Fracture of orbital roof, left side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.122K	Fracture of orbital roof, left side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.129	Fracture of orbital roof, unspecified side	Diagnosis	ICD-10-CM
S02.129A	Fracture of orbital roof, unspecified side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.129B	Fracture of orbital roof, unspecified side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.129G	Fracture of orbital roof, unspecified side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.129K	Fracture of orbital roof, unspecified side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.19	Other fracture of base of skull	Diagnosis	ICD-10-CM
S02.19XA	Other fracture of base of skull, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.19XB	Other fracture of base of skull, initial encounter for open fracture	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S02.19XG	Other fracture of base of skull, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.19XK	Other fracture of base of skull, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.2	Fracture of nasal bones	Diagnosis	ICD-10-CM
S02.3	Fracture of orbital floor	Diagnosis	ICD-10-CM
S02.30	Fracture of orbital floor, unspecified side	Diagnosis	ICD-10-CM
S02.30XA	Fracture of orbital floor, unspecified side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.30XB	Fracture of orbital floor, unspecified side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.30XG	Fracture of orbital floor, unspecified side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.30XK	Fracture of orbital floor, unspecified side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.31	Fracture of orbital floor, right side	Diagnosis	ICD-10-CM
S02.31XA	Fracture of orbital floor, right side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.31XB	Fracture of orbital floor, right side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.31XG	Fracture of orbital floor, right side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.31XK	Fracture of orbital floor, right side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.32	Fracture of orbital floor, left side	Diagnosis	ICD-10-CM
S02.32XA	Fracture of orbital floor, left side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.32XB	Fracture of orbital floor, left side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.32XG	Fracture of orbital floor, left side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.32XK	Fracture of orbital floor, left side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.3XXA	Fracture of orbital floor, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.3XXB	Fracture of orbital floor, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.3XXG	Fracture of orbital floor, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.3XXK	Fracture of orbital floor, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.8	Fractures of other specified skull and facial bones	Diagnosis	ICD-10-CM
S02.80	Fracture of other specified skull and facial bones, unspecified side	Diagnosis	ICD-10-CM
S02.80XA	Fracture of other specified skull and facial bones, unspecified side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.80XB	Fracture of other specified skull and facial bones, unspecified side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.80XG	Fracture of other specified skull and facial bones, unspecified side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.80XK	Fracture of other specified skull and facial bones, unspecified side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.81	Fracture of other specified skull and facial bones, right side	Diagnosis	ICD-10-CM
S02.81XA	Fracture of other specified skull and facial bones, right side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.81XB	Fracture of other specified skull and facial bones, right side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.81XG	Fracture of other specified skull and facial bones, right side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S02.81XK	Fracture of other specified skull and facial bones, right side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.82	Fracture of other specified skull and facial bones, left side	Diagnosis	ICD-10-CM
S02.82XA	Fracture of other specified skull and facial bones, left side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.82XB	Fracture of other specified skull and facial bones, left side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.82XG	Fracture of other specified skull and facial bones, left side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.82XK	Fracture of other specified skull and facial bones, left side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.83	Fracture of medial orbital wall	Diagnosis	ICD-10-CM
S02.831	Fracture of medial orbital wall, right side	Diagnosis	ICD-10-CM
S02.831A	Fracture of medial orbital wall, right side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.831B	Fracture of medial orbital wall, right side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.831G	Fracture of medial orbital wall, right side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.831K	Fracture of medial orbital wall, right side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.832	Fracture of medial orbital wall, left side	Diagnosis	ICD-10-CM
S02.832A	Fracture of medial orbital wall, left side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.832B	Fracture of medial orbital wall, left side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.832G	Fracture of medial orbital wall, left side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.832K	Fracture of medial orbital wall, left side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.839	Fracture of medial orbital wall, unspecified side	Diagnosis	ICD-10-CM
S02.839A	Fracture of medial orbital wall, unspecified side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.839B	Fracture of medial orbital wall, unspecified side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.839G	Fracture of medial orbital wall, unspecified side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.839K	Fracture of medial orbital wall, unspecified side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.84	Fracture of lateral orbital wall	Diagnosis	ICD-10-CM
S02.841	Fracture of lateral orbital wall, right side	Diagnosis	ICD-10-CM
S02.841A	Fracture of lateral orbital wall, right side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.841B	Fracture of lateral orbital wall, right side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.841G	Fracture of lateral orbital wall, right side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.841K	Fracture of lateral orbital wall, right side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.842	Fracture of lateral orbital wall, left side	Diagnosis	ICD-10-CM
S02.842A	Fracture of lateral orbital wall, left side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.842B	Fracture of lateral orbital wall, left side, initial encounter for open fracture	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S02.842G	Fracture of lateral orbital wall, left side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.842K	Fracture of lateral orbital wall, left side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.849	Fracture of lateral orbital wall, unspecified side	Diagnosis	ICD-10-CM
S02.849A	Fracture of lateral orbital wall, unspecified side, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.849B	Fracture of lateral orbital wall, unspecified side, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.849G	Fracture of lateral orbital wall, unspecified side, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.849K	Fracture of lateral orbital wall, unspecified side, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.85	Fracture of orbit, unspecified	Diagnosis	ICD-10-CM
S02.85XA	Fracture of orbit, unspecified, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.85XB	Fracture of orbit, unspecified, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.85XG	Fracture of orbit, unspecified, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.85XK	Fracture of orbit, unspecified, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.8XXA	Fractures of other specified skull and facial bones, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.8XXB	Fractures of other specified skull and facial bones, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.8XXG	Fractures of other specified skull and facial bones, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.8XXK	Fractures of other specified skull and facial bones, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.9	Fracture of unspecified skull and facial bones	Diagnosis	ICD-10-CM
S02.91	Unspecified fracture of skull	Diagnosis	ICD-10-CM
S02.91XA	Unspecified fracture of skull, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.91XB	Unspecified fracture of skull, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.91XG	Unspecified fracture of skull, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.91XK	Unspecified fracture of skull, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S02.92	Unspecified fracture of facial bones	Diagnosis	ICD-10-CM
S02.92XA	Unspecified fracture of facial bones, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S02.92XB	Unspecified fracture of facial bones, initial encounter for open fracture	Diagnosis	ICD-10-CM
S02.92XG	Unspecified fracture of facial bones, subsequent encounter for fracture with delayed healing	Diagnosis	ICD-10-CM
S02.92XK	Unspecified fracture of facial bones, subsequent encounter for fracture with nonunion	Diagnosis	ICD-10-CM
S04.0	Injury of optic nerve and pathways	Diagnosis	ICD-10-CM
S04.01	Injury of optic nerve	Diagnosis	ICD-10-CM
S04.011	Injury of optic nerve, right eye	Diagnosis	ICD-10-CM
S04.011A	Injury of optic nerve, right eye, initial encounter	Diagnosis	ICD-10-CM
S04.012	Injury of optic nerve, left eye	Diagnosis	ICD-10-CM
S04.012A	Injury of optic nerve, left eye, initial encounter	Diagnosis	ICD-10-CM
S04.019	Injury of optic nerve, unspecified eye	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S04.019A	Injury of optic nerve, unspecified eye, initial encounter	Diagnosis	ICD-10-CM
S04.02	Injury of optic chiasm	Diagnosis	ICD-10-CM
S04.02XA	Injury of optic chiasm, initial encounter	Diagnosis	ICD-10-CM
S04.03	Injury of optic tract and pathways	Diagnosis	ICD-10-CM
S04.031	Injury of optic tract and pathways, right side	Diagnosis	ICD-10-CM
S04.031A	Injury of optic tract and pathways, right side, initial encounter	Diagnosis	ICD-10-CM
S04.032	Injury of optic tract and pathways, left side	Diagnosis	ICD-10-CM
S04.032A	Injury of optic tract and pathways, left side, initial encounter	Diagnosis	ICD-10-CM
S04.039	Injury of optic tract and pathways, unspecified side	Diagnosis	ICD-10-CM
S04.039A	Injury of optic tract and pathways, unspecified side, initial encounter	Diagnosis	ICD-10-CM
S04.04	Injury of visual cortex	Diagnosis	ICD-10-CM
S04.041	Injury of visual cortex, right side	Diagnosis	ICD-10-CM
S04.041A	Injury of visual cortex, right side, initial encounter	Diagnosis	ICD-10-CM
S04.042	Injury of visual cortex, left side	Diagnosis	ICD-10-CM
S04.042A	Injury of visual cortex, left side, initial encounter	Diagnosis	ICD-10-CM
S04.049	Injury of visual cortex, unspecified side	Diagnosis	ICD-10-CM
S04.049A	Injury of visual cortex, unspecified side, initial encounter	Diagnosis	ICD-10-CM
S06	Intracranial injury	Diagnosis	ICD-10-CM
S06.0	Concussion	Diagnosis	ICD-10-CM
S06.0X	Concussion	Diagnosis	ICD-10-CM
S06.0X0	Concussion without loss of consciousness	Diagnosis	ICD-10-CM
S06.0X0A	Concussion without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.0X1	Concussion with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.0X1A	Concussion with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.0X2	Concussion with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.0X2A	Concussion with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.0X3	Concussion with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.0X3A	Concussion with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.0X4	Concussion with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.0X4A	Concussion with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.0X5	Concussion with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.0X5A	Concussion with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.0X6	Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.0X6A	Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.0X7	Concussion with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.0X7A	Concussion with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.0X8	Concussion with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.0X8A	Concussion with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.0X9	Concussion with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.0X9A	Concussion with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.0XA	Concussion with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.0XAA	Concussion with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.1	Traumatic cerebral edema	Diagnosis	ICD-10-CM
S06.1X	Traumatic cerebral edema	Diagnosis	ICD-10-CM
S06.1X0	Traumatic cerebral edema without loss of consciousness	Diagnosis	ICD-10-CM
S06.1X0A	Traumatic cerebral edema without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.1X1	Traumatic cerebral edema with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.1X1A	Traumatic cerebral edema with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.1X2	Traumatic cerebral edema with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.1X2A	Traumatic cerebral edema with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.1X3	Traumatic cerebral edema with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.1X3A	Traumatic cerebral edema with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.1X4	Traumatic cerebral edema with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.1X4A	Traumatic cerebral edema with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.1X5	Traumatic cerebral edema with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.1X5A	Traumatic cerebral edema with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.1X6	Traumatic cerebral edema with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.1X6A	Traumatic cerebral edema with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.1X7	Traumatic cerebral edema with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.1X7A	Traumatic cerebral edema with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.1X8	Traumatic cerebral edema with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.1X8A	Traumatic cerebral edema with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.1X9	Traumatic cerebral edema with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.1X9A	Traumatic cerebral edema with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.1XA	Traumatic cerebral edema with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.1XAA	Traumatic cerebral edema with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.2	Diffuse traumatic brain injury	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.2X	Diffuse traumatic brain injury	Diagnosis	ICD-10-CM
S06.2X0	Diffuse traumatic brain injury without loss of consciousness	Diagnosis	ICD-10-CM
S06.2X0A	Diffuse traumatic brain injury without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.2X1	Diffuse traumatic brain injury with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.2X1A	Diffuse traumatic brain injury with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.2X2	Diffuse traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.2X2A	Diffuse traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.2X3	Diffuse traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.2X3A	Diffuse traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.2X4	Diffuse traumatic brain injury with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.2X4A	Diffuse traumatic brain injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.2X5	Diffuse traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious levels	Diagnosis	ICD-10-CM
S06.2X5A	Diffuse traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious levels, initial encounter	Diagnosis	ICD-10-CM
S06.2X6	Diffuse traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.2X6A	Diffuse traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.2X7	Diffuse traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.2X7A	Diffuse traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.2X8	Diffuse traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.2X8A	Diffuse traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.2X9	Diffuse traumatic brain injury with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.2X9A	Diffuse traumatic brain injury with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.2XA	Diffuse traumatic brain injury with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.2XAA	Diffuse traumatic brain injury with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.3	Focal traumatic brain injury	Diagnosis	ICD-10-CM
S06.30	Unspecified focal traumatic brain injury	Diagnosis	ICD-10-CM
S06.300	Unspecified focal traumatic brain injury without loss of consciousness	Diagnosis	ICD-10-CM
S06.300A	Unspecified focal traumatic brain injury without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.301	Unspecified focal traumatic brain injury with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.301A	Unspecified focal traumatic brain injury with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.302	Unspecified focal traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.302A	Unspecified focal traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.303	Unspecified focal traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.303A	Unspecified focal traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.304	Unspecified focal traumatic brain injury with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.304A	Unspecified focal traumatic brain injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.305	Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.305A	Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.306	Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.306A	Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.307	Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.307A	Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.308	Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.308A	Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.309	Unspecified focal traumatic brain injury with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.309A	Unspecified focal traumatic brain injury with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.30A	Unspecified focal traumatic brain injury with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.30AA	Unspecified focal traumatic brain injury with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.31	Contusion and laceration of right cerebrum	Diagnosis	ICD-10-CM
S06.310	Contusion and laceration of right cerebrum without loss of consciousness	Diagnosis	ICD-10-CM
S06.310A	Contusion and laceration of right cerebrum without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.311	Contusion and laceration of right cerebrum with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.311A	Contusion and laceration of right cerebrum with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.312	Contusion and laceration of right cerebrum with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.312A	Contusion and laceration of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.313	Contusion and laceration of right cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.313A	Contusion and laceration of right cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.314	Contusion and laceration of right cerebrum with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.314A	Contusion and laceration of right cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.315	Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.315A	Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.316	Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.316A	Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.317	Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.317A	Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.318	Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.318A	Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.319	Contusion and laceration of right cerebrum with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.319A	Contusion and laceration of right cerebrum with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.31A	Contusion and laceration of right cerebrum with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.31AA	Contusion and laceration of right cerebrum with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.32	Contusion and laceration of left cerebrum	Diagnosis	ICD-10-CM
S06.320	Contusion and laceration of left cerebrum without loss of consciousness	Diagnosis	ICD-10-CM
S06.320A	Contusion and laceration of left cerebrum without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.321	Contusion and laceration of left cerebrum with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.321A	Contusion and laceration of left cerebrum with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.322	Contusion and laceration of left cerebrum with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.322A	Contusion and laceration of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.323	Contusion and laceration of left cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.323A	Contusion and laceration of left cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.324	Contusion and laceration of left cerebrum with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.324A	Contusion and laceration of left cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.325	Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.325A	Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.326	Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.326A	Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.327	Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.327A	Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.328	Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.328A	Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.329	Contusion and laceration of left cerebrum with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.329A	Contusion and laceration of left cerebrum with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.32A	Contusion and laceration of left cerebrum with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.32AA	Contusion and laceration of left cerebrum with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.33	Contusion and laceration of cerebrum, unspecified	Diagnosis	ICD-10-CM
S06.330	Contusion and laceration of cerebrum, unspecified, without loss of consciousness	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.330A	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.331	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.331A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.332	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.332A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.333	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.333A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.334	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.334A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.335	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.335A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.336	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.336A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.337	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.337A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.338	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.338A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.339	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.339A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.33A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.33AA	Contusion and laceration of cerebrum, unspecified, with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.34	Traumatic hemorrhage of right cerebrum	Diagnosis	ICD-10-CM
S06.340	Traumatic hemorrhage of right cerebrum without loss of consciousness	Diagnosis	ICD-10-CM
S06.340A	Traumatic hemorrhage of right cerebrum without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.341	Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.341A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.342	Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.342A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.343	Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.343A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.344	Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.344A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.345	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.345A	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.346	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.346A	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.347	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.347A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.348	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.348A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.349	Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.349A	Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.34A	Traumatic hemorrhage of right cerebrum with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.34AA	Traumatic hemorrhage of right cerebrum with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.35	Traumatic hemorrhage of left cerebrum	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.350	Traumatic hemorrhage of left cerebrum without loss of consciousness	Diagnosis	ICD-10-CM
S06.350A	Traumatic hemorrhage of left cerebrum without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.351	Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.351A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.352	Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.352A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.353	Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.353A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.354	Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.354A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.355	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.355A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.356	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.356A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.357	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.357A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.358	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.358A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.359	Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.359A	Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.35A	Traumatic hemorrhage of left cerebrum with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.35AA	Traumatic hemorrhage of left cerebrum with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.36	Traumatic hemorrhage of cerebrum, unspecified	Diagnosis	ICD-10-CM
S06.360	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.360A	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.361	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.361A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.362	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.362A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.363	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.363A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.364	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.364A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.365	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.365A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.366	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.366A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.367	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.367A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.368	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.368A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.369	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.369A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.36A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.36AA	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.37	Contusion, laceration, and hemorrhage of cerebellum	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.370	Contusion, laceration, and hemorrhage of cerebellum without loss of consciousness	Diagnosis	ICD-10-CM
S06.370A	Contusion, laceration, and hemorrhage of cerebellum without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.371	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.371A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.372	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.372A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.373	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.373A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.374	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.374A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.375	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.375A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.376	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.376A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.377	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.377A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.378	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.378A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.379	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.379A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.37A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness status unknown	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.37AA	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.38	Contusion, laceration, and hemorrhage of brainstem	Diagnosis	ICD-10-CM
S06.380	Contusion, laceration, and hemorrhage of brainstem without loss of consciousness	Diagnosis	ICD-10-CM
S06.380A	Contusion, laceration, and hemorrhage of brainstem without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.381	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.381A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.382	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.382A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.383	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.383A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.384	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.384A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.385	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.385A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.386	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.386A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.387	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.387A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.388	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.388A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.389	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.389A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.38A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.38AA	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.4	Epidural hemorrhage	Diagnosis	ICD-10-CM
S06.4X	Epidural hemorrhage	Diagnosis	ICD-10-CM
S06.4X0	Epidural hemorrhage without loss of consciousness	Diagnosis	ICD-10-CM
S06.4X0A	Epidural hemorrhage without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.4X1	Epidural hemorrhage with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.4X1A	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.4X2	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.4X2A	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.4X3	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.4X3A	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.4X4	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.4X4A	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.4X5	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.4X5A	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.4X6	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.4X6A	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.4X7	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.4X7A	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.4X8	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.4X8A	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.4X9	Epidural hemorrhage with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.4X9A	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.4XA	Epidural hemorrhage with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.4XAA	Epidural hemorrhage with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.5	Traumatic subdural hemorrhage	Diagnosis	ICD-10-CM
S06.5X	Traumatic subdural hemorrhage	Diagnosis	ICD-10-CM
S06.5X0	Traumatic subdural hemorrhage without loss of consciousness	Diagnosis	ICD-10-CM
S06.5X0A	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.5X1	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.5X1A	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.5X2	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.5X2A	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.5X3	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.5X3A	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.5X4	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.5X4A	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.5X5	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.5X5A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.5X6	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.5X6A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.5X7	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness	Diagnosis	ICD-10-CM
S06.5X7A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.5X8	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness	Diagnosis	ICD-10-CM
S06.5X8A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.5X9	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.5X9A	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.5XA	Traumatic subdural hemorrhage with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.5XAA	Traumatic subdural hemorrhage with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.6	Traumatic subarachnoid hemorrhage	Diagnosis	ICD-10-CM
S06.6X	Traumatic subarachnoid hemorrhage	Diagnosis	ICD-10-CM
S06.6X0	Traumatic subarachnoid hemorrhage without loss of consciousness	Diagnosis	ICD-10-CM
S06.6X0A	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.6X1	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.6X1A	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.6X2	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.6X2A	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.6X3	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.6X3A	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.6X4	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.6X4A	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.6X5	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.6X5A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.6X6	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.6X6A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.6X7	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.6X7A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.6X8	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.6X8A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.6X9	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.6X9A	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.6XA	Traumatic subarachnoid hemorrhage with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.6XAA	Traumatic subarachnoid hemorrhage with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.8	Other specified intracranial injuries	Diagnosis	ICD-10-CM
S06.81	Injury of right internal carotid artery, intracranial portion, not elsewhere classified	Diagnosis	ICD-10-CM
S06.810	Injury of right internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness	Diagnosis	ICD-10-CM
S06.810A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.811	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.811A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.812	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.812A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.813	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.813A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.814	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.814A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.815	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.815A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.816	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.816A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.817	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.817A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.818	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.818A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.819	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.819A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.81A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.81AA	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.82	Injury of left internal carotid artery, intracranial portion, not elsewhere classified	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.820	Injury of left internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness	Diagnosis	ICD-10-CM
S06.820A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.821	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.821A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.822	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.822A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.823	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.823A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.824	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.824A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.825	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.825A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.826	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.826A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.827	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.827A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.828	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.828A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.829	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.829A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.82A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.82AA	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.89	Other specified intracranial injury	Diagnosis	ICD-10-CM
S06.890	Other specified intracranial injury without loss of consciousness	Diagnosis	ICD-10-CM
S06.890A	Other specified intracranial injury without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.891	Other specified intracranial injury with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.891A	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.892	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.892A	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.893	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.893A	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.894	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.894A	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.895	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.895A	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.896	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.896A	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.897	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.897A	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.898	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.898A	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.899	Other specified intracranial injury with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.899A	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.89A	Other specified intracranial injury with loss of consciousness status unknown	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.89AA	Other specified intracranial injury with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.8A	Primary blast injury of brain, not elsewhere classified	Diagnosis	ICD-10-CM
S06.8A0	Primary blast injury of brain, not elsewhere classified without loss of consciousness	Diagnosis	ICD-10-CM
S06.8A0A	Primary blast injury of brain, not elsewhere classified without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.8A1	Primary blast injury of brain, not elsewhere classified with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.8A1A	Primary blast injury of brain, not elsewhere classified with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.8A2	Primary blast injury of brain, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.8A2A	Primary blast injury of brain, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.8A3	Primary blast injury of brain, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.8A3A	Primary blast injury of brain, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.8A4	Primary blast injury of brain, not elsewhere classified with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.8A4A	Primary blast injury of brain, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.8A5	Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.8A5A	Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.8A6	Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.8A6A	Primary blast injury of brain, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.8A7	Primary blast injury of brain, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.8A7A	Primary blast injury of brain, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.8A8	Primary blast injury of brain, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.8A8A	Primary blast injury of brain, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.8A9	Primary blast injury of brain, not elsewhere classified with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.8A9A	Primary blast injury of brain, not elsewhere classified with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.8AA	Primary blast injury of brain, not elsewhere classified with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.8AAA	Primary blast injury of brain, not elsewhere classified with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.9	Unspecified intracranial injury	Diagnosis	ICD-10-CM
S06.9X	Unspecified intracranial injury	Diagnosis	ICD-10-CM
S06.9X0	Unspecified intracranial injury without loss of consciousness	Diagnosis	ICD-10-CM
S06.9X0A	Unspecified intracranial injury without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.9X1	Unspecified intracranial injury with loss of consciousness of 30 minutes or less	Diagnosis	ICD-10-CM
S06.9X1A	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.9X2	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes	Diagnosis	ICD-10-CM
S06.9X2A	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.9X3	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes	Diagnosis	ICD-10-CM
S06.9X3A	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.9X4	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours	Diagnosis	ICD-10-CM
S06.9X4A	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.9X5	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level	Diagnosis	ICD-10-CM
S06.9X5A	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.9X6	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving	Diagnosis	ICD-10-CM
S06.9X6A	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.9X7	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.9X7A	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.9X8	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness	Diagnosis	ICD-10-CM
S06.9X8A	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.9X9	Unspecified intracranial injury with loss of consciousness of unspecified duration	Diagnosis	ICD-10-CM
S06.9X9A	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.9XA	Unspecified intracranial injury with loss of consciousness status unknown	Diagnosis	ICD-10-CM
S06.9XAA	Unspecified intracranial injury with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.A	Traumatic brain compression and herniation	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
S06.A0	Traumatic brain compression without herniation	Diagnosis	ICD-10-CM
S06.A0XA	Traumatic brain compression without herniation, initial encounter	Diagnosis	ICD-10-CM
S06.A1	Traumatic brain compression with herniation	Diagnosis	ICD-10-CM
S06.A1XA	Traumatic brain compression with herniation, initial encounter	Diagnosis	ICD-10-CM
S09.8XXA	Other specified injuries of head, initial encounter	Diagnosis	ICD-10-CM
S09.90XA	Unspecified injury of head, initial encounter	Diagnosis	ICD-10-CM
	Cancer		
C00	Malignant neoplasm of lip	Diagnosis	ICD-10-CM
C00.0	Malignant neoplasm of external upper lip	Diagnosis	ICD-10-CM
C00.1	Malignant neoplasm of external lower lip	Diagnosis	ICD-10-CM
C00.2	Malignant neoplasm of external lip, unspecified	Diagnosis	ICD-10-CM
C00.3	Malignant neoplasm of upper lip, inner aspect	Diagnosis	ICD-10-CM
C00.4	Malignant neoplasm of lower lip, inner aspect	Diagnosis	ICD-10-CM
C00.5	Malignant neoplasm of lip, unspecified, inner aspect	Diagnosis	ICD-10-CM
C00.6	Malignant neoplasm of commissure of lip, unspecified	Diagnosis	ICD-10-CM
C00.8	Malignant neoplasm of overlapping sites of lip	Diagnosis	ICD-10-CM
C00.9	Malignant neoplasm of lip, unspecified	Diagnosis	ICD-10-CM
C01	Malignant neoplasm of base of tongue	Diagnosis	ICD-10-CM
C02	Malignant neoplasm of other and unspecified parts of tongue	Diagnosis	ICD-10-CM
C02.0	Malignant neoplasm of dorsal surface of tongue	Diagnosis	ICD-10-CM
C02.1	Malignant neoplasm of border of tongue	Diagnosis	ICD-10-CM
C02.2	Malignant neoplasm of ventral surface of tongue	Diagnosis	ICD-10-CM
C02.3	Malignant neoplasm of anterior two-thirds of tongue, part unspecified	Diagnosis	ICD-10-CM
C02.4	Malignant neoplasm of lingual tonsil	Diagnosis	ICD-10-CM
C02.8	Malignant neoplasm of overlapping sites of tongue	Diagnosis	ICD-10-CM
C02.9	Malignant neoplasm of tongue, unspecified	Diagnosis	ICD-10-CM
C03	Malignant neoplasm of gum	Diagnosis	ICD-10-CM
C03.0	Malignant neoplasm of upper gum	Diagnosis	ICD-10-CM
C03.1	Malignant neoplasm of lower gum	Diagnosis	ICD-10-CM
C03.9	Malignant neoplasm of gum, unspecified	Diagnosis	ICD-10-CM
C04	Malignant neoplasm of floor of mouth	Diagnosis	ICD-10-CM
C04.0	Malignant neoplasm of anterior floor of mouth	Diagnosis	ICD-10-CM
C04.1	Malignant neoplasm of lateral floor of mouth	Diagnosis	ICD-10-CM
C04.8	Malignant neoplasm of overlapping sites of floor of mouth	Diagnosis	ICD-10-CM
C04.9	Malignant neoplasm of floor of mouth, unspecified	Diagnosis	ICD-10-CM
C05	Malignant neoplasm of palate	Diagnosis	ICD-10-CM
C05.0	Malignant neoplasm of hard palate	Diagnosis	ICD-10-CM
C05.1	Malignant neoplasm of soft palate	Diagnosis	ICD-10-CM
C05.2	Malignant neoplasm of uvula	Diagnosis	ICD-10-CM
C05.8	Malignant neoplasm of overlapping sites of palate	Diagnosis	ICD-10-CM
C05.9	Malignant neoplasm of palate, unspecified	Diagnosis	ICD-10-CM
C06	Malignant neoplasm of other and unspecified parts of mouth	Diagnosis	ICD-10-CM
C06.0	Malignant neoplasm of cheek mucosa	Diagnosis	ICD-10-CM
C06.1	Malignant neoplasm of vestibule of mouth	Diagnosis	ICD-10-CM
C06.2	Malignant neoplasm of retromolar area	Diagnosis	ICD-10-CM
C06.8	Malignant neoplasm of overlapping sites of other and unspecified parts of mouth	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C06.80	Malignant neoplasm of overlapping sites of unspecified parts of mouth	Diagnosis	ICD-10-CM
C06.89	Malignant neoplasm of overlapping sites of other parts of mouth	Diagnosis	ICD-10-CM
C06.9	Malignant neoplasm of mouth, unspecified	Diagnosis	ICD-10-CM
C07	Malignant neoplasm of parotid gland	Diagnosis	ICD-10-CM
C08	Malignant neoplasm of other and unspecified major salivary glands	Diagnosis	ICD-10-CM
C08.0	Malignant neoplasm of submandibular gland	Diagnosis	ICD-10-CM
C08.1	Malignant neoplasm of sublingual gland	Diagnosis	ICD-10-CM
C08.9	Malignant neoplasm of major salivary gland, unspecified	Diagnosis	ICD-10-CM
C09	Malignant neoplasm of tonsil	Diagnosis	ICD-10-CM
C09.0	Malignant neoplasm of tonsillar fossa	Diagnosis	ICD-10-CM
C09.1	Malignant neoplasm of tonsillar pillar (anterior) (posterior)	Diagnosis	ICD-10-CM
C09.8	Malignant neoplasm of overlapping sites of tonsil	Diagnosis	ICD-10-CM
C09.9	Malignant neoplasm of tonsil, unspecified	Diagnosis	ICD-10-CM
C10	Malignant neoplasm of oropharynx	Diagnosis	ICD-10-CM
C10.0	Malignant neoplasm of vallecula	Diagnosis	ICD-10-CM
C10.1	Malignant neoplasm of anterior surface of epiglottis	Diagnosis	ICD-10-CM
C10.2	Malignant neoplasm of lateral wall of oropharynx	Diagnosis	ICD-10-CM
C10.3	Malignant neoplasm of posterior wall of oropharynx	Diagnosis	ICD-10-CM
C10.4	Malignant neoplasm of branchial cleft	Diagnosis	ICD-10-CM
C10.8	Malignant neoplasm of overlapping sites of oropharynx	Diagnosis	ICD-10-CM
C10.9	Malignant neoplasm of oropharynx, unspecified	Diagnosis	ICD-10-CM
C11	Malignant neoplasm of nasopharynx	Diagnosis	ICD-10-CM
C11.0	Malignant neoplasm of superior wall of nasopharynx	Diagnosis	ICD-10-CM
C11.1	Malignant neoplasm of posterior wall of nasopharynx	Diagnosis	ICD-10-CM
C11.2	Malignant neoplasm of lateral wall of nasopharynx	Diagnosis	ICD-10-CM
C11.3	Malignant neoplasm of anterior wall of nasopharynx	Diagnosis	ICD-10-CM
C11.8	Malignant neoplasm of overlapping sites of nasopharynx	Diagnosis	ICD-10-CM
C11.9	Malignant neoplasm of nasopharynx, unspecified	Diagnosis	ICD-10-CM
C12	Malignant neoplasm of pyriform sinus	Diagnosis	ICD-10-CM
C13	Malignant neoplasm of hypopharynx	Diagnosis	ICD-10-CM
C13.0	Malignant neoplasm of postcricoid region	Diagnosis	ICD-10-CM
C13.1	Malignant neoplasm of aryepiglottic fold, hypopharyngeal aspect	Diagnosis	ICD-10-CM
C13.2	Malignant neoplasm of posterior wall of hypopharynx	Diagnosis	ICD-10-CM
C13.8	Malignant neoplasm of overlapping sites of hypopharynx	Diagnosis	ICD-10-CM
C13.9	Malignant neoplasm of hypopharynx, unspecified	Diagnosis	ICD-10-CM
C14	Malignant neoplasm of other and ill-defined sites in the lip, oral cavity and pharynx	Diagnosis	ICD-10-CM
C14.0	Malignant neoplasm of pharynx, unspecified	Diagnosis	ICD-10-CM
C14.2	Malignant neoplasm of Waldeyer's ring	Diagnosis	ICD-10-CM
C14.8	Malignant neoplasm of overlapping sites of lip, oral cavity and pharynx	Diagnosis	ICD-10-CM
C15	Malignant neoplasm of esophagus	Diagnosis	ICD-10-CM
C15.3	Malignant neoplasm of upper third of esophagus	Diagnosis	ICD-10-CM
C15.4	Malignant neoplasm of middle third of esophagus	Diagnosis	ICD-10-CM
C15.5	Malignant neoplasm of lower third of esophagus	Diagnosis	ICD-10-CM
C15.8	Malignant neoplasm of overlapping sites of esophagus	Diagnosis	ICD-10-CM
C15.9	Malignant neoplasm of esophagus, unspecified	Diagnosis	ICD-10-CM
C16	Malignant neoplasm of stomach	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C16.0	Malignant neoplasm of cardia	Diagnosis	ICD-10-CM
C16.1	Malignant neoplasm of fundus of stomach	Diagnosis	ICD-10-CM
C16.2	Malignant neoplasm of body of stomach	Diagnosis	ICD-10-CM
C16.3	Malignant neoplasm of pyloric antrum	Diagnosis	ICD-10-CM
C16.4	Malignant neoplasm of pylorus	Diagnosis	ICD-10-CM
C16.5	Malignant neoplasm of lesser curvature of stomach, unspecified	Diagnosis	ICD-10-CM
C16.6	Malignant neoplasm of greater curvature of stomach, unspecified	Diagnosis	ICD-10-CM
C16.8	Malignant neoplasm of overlapping sites of stomach	Diagnosis	ICD-10-CM
C16.9	Malignant neoplasm of stomach, unspecified	Diagnosis	ICD-10-CM
C17	Malignant neoplasm of small intestine	Diagnosis	ICD-10-CM
C17.0	Malignant neoplasm of duodenum	Diagnosis	ICD-10-CM
C17.1	Malignant neoplasm of jejunum	Diagnosis	ICD-10-CM
C17.2	Malignant neoplasm of ileum	Diagnosis	ICD-10-CM
C17.3	Meckel's diverticulum, malignant	Diagnosis	ICD-10-CM
C17.8	Malignant neoplasm of overlapping sites of small intestine	Diagnosis	ICD-10-CM
C17.9	Malignant neoplasm of small intestine, unspecified	Diagnosis	ICD-10-CM
C18	Malignant neoplasm of colon	Diagnosis	ICD-10-CM
C18.0	Malignant neoplasm of cecum	Diagnosis	ICD-10-CM
C18.1	Malignant neoplasm of appendix	Diagnosis	ICD-10-CM
C18.2	Malignant neoplasm of ascending colon	Diagnosis	ICD-10-CM
C18.3	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-10-CM
C18.4	Malignant neoplasm of transverse colon	Diagnosis	ICD-10-CM
C18.5	Malignant neoplasm of splenic flexure	Diagnosis	ICD-10-CM
C18.6	Malignant neoplasm of descending colon	Diagnosis	ICD-10-CM
C18.7	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-10-CM
C18.8	Malignant neoplasm of overlapping sites of colon	Diagnosis	ICD-10-CM
C18.9	Malignant neoplasm of colon, unspecified	Diagnosis	ICD-10-CM
C19	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-10-CM
C20	Malignant neoplasm of rectum	Diagnosis	ICD-10-CM
C21	Malignant neoplasm of anus and anal canal	Diagnosis	ICD-10-CM
C21.0	Malignant neoplasm of anus, unspecified	Diagnosis	ICD-10-CM
C21.1	Malignant neoplasm of anal canal	Diagnosis	ICD-10-CM
C21.2	Malignant neoplasm of cloacogenic zone	Diagnosis	ICD-10-CM
C21.8	Malignant neoplasm of overlapping sites of rectum, anus and anal canal	Diagnosis	ICD-10-CM
C22	Malignant neoplasm of liver and intrahepatic bile ducts	Diagnosis	ICD-10-CM
C22.0	Liver cell carcinoma	Diagnosis	ICD-10-CM
C22.1	Intrahepatic bile duct carcinoma	Diagnosis	ICD-10-CM
C22.2	Hepatoblastoma	Diagnosis	ICD-10-CM
C22.3	Angiosarcoma of liver	Diagnosis	ICD-10-CM
C22.4	Other sarcomas of liver	Diagnosis	ICD-10-CM
C22.7	Other specified carcinomas of liver	Diagnosis	ICD-10-CM
C22.8	Malignant neoplasm of liver, primary, unspecified as to type	Diagnosis	ICD-10-CM
C22.9	Malignant neoplasm of liver, not specified as primary or secondary	Diagnosis	ICD-10-CM
C23	Malignant neoplasm of gallbladder	Diagnosis	ICD-10-CM
C24	Malignant neoplasm of other and unspecified parts of biliary tract	Diagnosis	ICD-10-CM
C24.0	Malignant neoplasm of extrahepatic bile duct	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C24.1	Malignant neoplasm of ampulla of Vater	Diagnosis	ICD-10-CM
C24.8	Malignant neoplasm of overlapping sites of biliary tract	Diagnosis	ICD-10-CM
C24.9	Malignant neoplasm of biliary tract, unspecified	Diagnosis	ICD-10-CM
C25	Malignant neoplasm of pancreas	Diagnosis	ICD-10-CM
C25.0	Malignant neoplasm of head of pancreas	Diagnosis	ICD-10-CM
C25.1	Malignant neoplasm of body of pancreas	Diagnosis	ICD-10-CM
C25.2	Malignant neoplasm of tail of pancreas	Diagnosis	ICD-10-CM
C25.3	Malignant neoplasm of pancreatic duct	Diagnosis	ICD-10-CM
C25.4	Malignant neoplasm of endocrine pancreas	Diagnosis	ICD-10-CM
C25.7	Malignant neoplasm of other parts of pancreas	Diagnosis	ICD-10-CM
C25.8	Malignant neoplasm of overlapping sites of pancreas	Diagnosis	ICD-10-CM
C25.9	Malignant neoplasm of pancreas, unspecified	Diagnosis	ICD-10-CM
C26	Malignant neoplasm of other and ill-defined digestive organs	Diagnosis	ICD-10-CM
C26.0	Malignant neoplasm of intestinal tract, part unspecified	Diagnosis	ICD-10-CM
C26.1	Malignant neoplasm of spleen	Diagnosis	ICD-10-CM
C26.9	Malignant neoplasm of ill-defined sites within the digestive system	Diagnosis	ICD-10-CM
C30	Malignant neoplasm of nasal cavity and middle ear	Diagnosis	ICD-10-CM
C30.0	Malignant neoplasm of nasal cavity	Diagnosis	ICD-10-CM
C30.1	Malignant neoplasm of middle ear	Diagnosis	ICD-10-CM
C31	Malignant neoplasm of accessory sinuses	Diagnosis	ICD-10-CM
C31.0	Malignant neoplasm of maxillary sinus	Diagnosis	ICD-10-CM
C31.1	Malignant neoplasm of ethmoidal sinus	Diagnosis	ICD-10-CM
C31.2	Malignant neoplasm of frontal sinus	Diagnosis	ICD-10-CM
C31.3	Malignant neoplasm of sphenoid sinus	Diagnosis	ICD-10-CM
C31.8	Malignant neoplasm of overlapping sites of accessory sinuses	Diagnosis	ICD-10-CM
C31.9	Malignant neoplasm of accessory sinus, unspecified	Diagnosis	ICD-10-CM
C32	Malignant neoplasm of larynx	Diagnosis	ICD-10-CM
C32.0	Malignant neoplasm of glottis	Diagnosis	ICD-10-CM
C32.1	Malignant neoplasm of supraglottis	Diagnosis	ICD-10-CM
C32.2	Malignant neoplasm of subglottis	Diagnosis	ICD-10-CM
C32.3	Malignant neoplasm of laryngeal cartilage	Diagnosis	ICD-10-CM
C32.8	Malignant neoplasm of overlapping sites of larynx	Diagnosis	ICD-10-CM
C32.9	Malignant neoplasm of larynx, unspecified	Diagnosis	ICD-10-CM
C33	Malignant neoplasm of trachea	Diagnosis	ICD-10-CM
C34	Malignant neoplasm of bronchus and lung	Diagnosis	ICD-10-CM
C34.0	Malignant neoplasm of main bronchus	Diagnosis	ICD-10-CM
C34.00	Malignant neoplasm of unspecified main bronchus	Diagnosis	ICD-10-CM
C34.01	Malignant neoplasm of right main bronchus	Diagnosis	ICD-10-CM
C34.02	Malignant neoplasm of left main bronchus	Diagnosis	ICD-10-CM
C34.1	Malignant neoplasm of upper lobe, bronchus or lung	Diagnosis	ICD-10-CM
C34.10	Malignant neoplasm of upper lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.11	Malignant neoplasm of upper lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C34.12	Malignant neoplasm of upper lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C34.2	Malignant neoplasm of middle lobe, bronchus or lung	Diagnosis	ICD-10-CM
C34.3	Malignant neoplasm of lower lobe, bronchus or lung	Diagnosis	ICD-10-CM
C34.30	Malignant neoplasm of lower lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C34.31	Malignant neoplasm of lower lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C34.32	Malignant neoplasm of lower lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C34.8	Malignant neoplasm of overlapping sites of bronchus and lung	Diagnosis	ICD-10-CM
C34.80	Malignant neoplasm of overlapping sites of unspecified bronchus and lung	Diagnosis	ICD-10-CM
C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung	Diagnosis	ICD-10-CM
C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung	Diagnosis	ICD-10-CM
C34.9	Malignant neoplasm of unspecified part of bronchus or lung	Diagnosis	ICD-10-CM
C34.90	Malignant neoplasm of unspecified part of unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.91	Malignant neoplasm of unspecified part of right bronchus or lung	Diagnosis	ICD-10-CM
C34.92	Malignant neoplasm of unspecified part of left bronchus or lung	Diagnosis	ICD-10-CM
C37	Malignant neoplasm of thymus	Diagnosis	ICD-10-CM
C38	Malignant neoplasm of heart, mediastinum and pleura	Diagnosis	ICD-10-CM
C38.0	Malignant neoplasm of heart	Diagnosis	ICD-10-CM
C38.1	Malignant neoplasm of anterior mediastinum	Diagnosis	ICD-10-CM
C38.2	Malignant neoplasm of posterior mediastinum	Diagnosis	ICD-10-CM
C38.3	Malignant neoplasm of mediastinum, part unspecified	Diagnosis	ICD-10-CM
C38.4	Malignant neoplasm of pleura	Diagnosis	ICD-10-CM
C38.8	Malignant neoplasm of overlapping sites of heart, mediastinum and pleura	Diagnosis	ICD-10-CM
C39	Malignant neoplasm of other and ill-defined sites in the respiratory system and intrathoracic organs	Diagnosis	ICD-10-CM
C39.0	Malignant neoplasm of upper respiratory tract, part unspecified	Diagnosis	ICD-10-CM
C39.9	Malignant neoplasm of lower respiratory tract, part unspecified	Diagnosis	ICD-10-CM
C40	Malignant neoplasm of bone and articular cartilage of limbs	Diagnosis	ICD-10-CM
C40.0	Malignant neoplasm of scapula and long bones of upper limb	Diagnosis	ICD-10-CM
C40.00	Malignant neoplasm of scapula and long bones of unspecified upper limb	Diagnosis	ICD-10-CM
C40.01	Malignant neoplasm of scapula and long bones of right upper limb	Diagnosis	ICD-10-CM
C40.02	Malignant neoplasm of scapula and long bones of left upper limb	Diagnosis	ICD-10-CM
C40.1	Malignant neoplasm of short bones of upper limb	Diagnosis	ICD-10-CM
C40.10	Malignant neoplasm of short bones of unspecified upper limb	Diagnosis	ICD-10-CM
C40.11	Malignant neoplasm of short bones of right upper limb	Diagnosis	ICD-10-CM
C40.12	Malignant neoplasm of short bones of left upper limb	Diagnosis	ICD-10-CM
C40.2	Malignant neoplasm of long bones of lower limb	Diagnosis	ICD-10-CM
C40.20	Malignant neoplasm of long bones of unspecified lower limb	Diagnosis	ICD-10-CM
C40.21	Malignant neoplasm of long bones of right lower limb	Diagnosis	ICD-10-CM
C40.22	Malignant neoplasm of long bones of left lower limb	Diagnosis	ICD-10-CM
C40.3	Malignant neoplasm of short bones of lower limb	Diagnosis	ICD-10-CM
C40.30	Malignant neoplasm of short bones of unspecified lower limb	Diagnosis	ICD-10-CM
C40.31	Malignant neoplasm of short bones of right lower limb	Diagnosis	ICD-10-CM
C40.32	Malignant neoplasm of short bones of left lower limb	Diagnosis	ICD-10-CM
C40.8	Malignant neoplasm of overlapping sites of bone and articular cartilage of limb	Diagnosis	ICD-10-CM
C40.80	Malignant neoplasm of overlapping sites of bone and articular cartilage of unspecified limb	Diagnosis	ICD-10-CM
C40.81	Malignant neoplasm of overlapping sites of bone and articular cartilage of right limb	Diagnosis	ICD-10-CM
C40.82	Malignant neoplasm of overlapping sites of bone and articular cartilage of left limb	Diagnosis	ICD-10-CM
C40.9	Malignant neoplasm of unspecified bones and articular cartilage of limb	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C40.90	Malignant neoplasm of unspecified bones and articular cartilage of unspecified limb	Diagnosis	ICD-10-CM
C40.91	Malignant neoplasm of unspecified bones and articular cartilage of right limb	Diagnosis	ICD-10-CM
C40.92	Malignant neoplasm of unspecified bones and articular cartilage of left limb	Diagnosis	ICD-10-CM
C41	Malignant neoplasm of bone and articular cartilage of other and unspecified sites	Diagnosis	ICD-10-CM
C41.0	Malignant neoplasm of bones of skull and face	Diagnosis	ICD-10-CM
C41.1	Malignant neoplasm of mandible	Diagnosis	ICD-10-CM
C41.2	Malignant neoplasm of vertebral column	Diagnosis	ICD-10-CM
C41.3	Malignant neoplasm of ribs, sternum and clavicle	Diagnosis	ICD-10-CM
C41.4	Malignant neoplasm of pelvic bones, sacrum and coccyx	Diagnosis	ICD-10-CM
C41.9	Malignant neoplasm of bone and articular cartilage, unspecified	Diagnosis	ICD-10-CM
C43	Malignant melanoma of skin	Diagnosis	ICD-10-CM
C43.0	Malignant melanoma of lip	Diagnosis	ICD-10-CM
C43.1	Malignant melanoma of eyelid, including canthus	Diagnosis	ICD-10-CM
C43.10	Malignant melanoma of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C43.11	Malignant melanoma of right eyelid, including canthus	Diagnosis	ICD-10-CM
C43.111	Malignant melanoma of right upper eyelid, including canthus	Diagnosis	ICD-10-CM
C43.112	Malignant melanoma of right lower eyelid, including canthus	Diagnosis	ICD-10-CM
C43.12	Malignant melanoma of left eyelid, including canthus	Diagnosis	ICD-10-CM
C43.121	Malignant melanoma of left upper eyelid, including canthus	Diagnosis	ICD-10-CM
C43.122	Malignant melanoma of left lower eyelid, including canthus	Diagnosis	ICD-10-CM
C43.2	Malignant melanoma of ear and external auricular canal	Diagnosis	ICD-10-CM
C43.20	Malignant melanoma of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
C43.21	Malignant melanoma of right ear and external auricular canal	Diagnosis	ICD-10-CM
C43.22	Malignant melanoma of left ear and external auricular canal	Diagnosis	ICD-10-CM
C43.3	Malignant melanoma of other and unspecified parts of face	Diagnosis	ICD-10-CM
C43.30	Malignant melanoma of unspecified part of face	Diagnosis	ICD-10-CM
C43.31	Malignant melanoma of nose	Diagnosis	ICD-10-CM
C43.39	Malignant melanoma of other parts of face	Diagnosis	ICD-10-CM
C43.4	Malignant melanoma of scalp and neck	Diagnosis	ICD-10-CM
C43.5	Malignant melanoma of trunk	Diagnosis	ICD-10-CM
C43.51	Malignant melanoma of anal skin	Diagnosis	ICD-10-CM
C43.52	Malignant melanoma of skin of breast	Diagnosis	ICD-10-CM
C43.59	Malignant melanoma of other part of trunk	Diagnosis	ICD-10-CM
C43.6	Malignant melanoma of upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.60	Malignant melanoma of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.61	Malignant melanoma of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.62	Malignant melanoma of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.7	Malignant melanoma of lower limb, including hip	Diagnosis	ICD-10-CM
C43.70	Malignant melanoma of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C43.71	Malignant melanoma of right lower limb, including hip	Diagnosis	ICD-10-CM
C43.72	Malignant melanoma of left lower limb, including hip	Diagnosis	ICD-10-CM
C43.8	Malignant melanoma of overlapping sites of skin	Diagnosis	ICD-10-CM
C43.9	Malignant melanoma of skin, unspecified	Diagnosis	ICD-10-CM
C45	Mesothelioma	Diagnosis	ICD-10-CM
C45.0	Mesothelioma of pleura	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C45.1	Mesothelioma of peritoneum	Diagnosis	ICD-10-CM
C45.2	Mesothelioma of pericardium	Diagnosis	ICD-10-CM
C45.7	Mesothelioma of other sites	Diagnosis	ICD-10-CM
C45.9	Mesothelioma, unspecified	Diagnosis	ICD-10-CM
C46	Kaposi's sarcoma	Diagnosis	ICD-10-CM
C46.0	Kaposi's sarcoma of skin	Diagnosis	ICD-10-CM
C46.1	Kaposi's sarcoma of soft tissue	Diagnosis	ICD-10-CM
C46.2	Kaposi's sarcoma of palate	Diagnosis	ICD-10-CM
C46.3	Kaposi's sarcoma of lymph nodes	Diagnosis	ICD-10-CM
C46.4	Kaposi's sarcoma of gastrointestinal sites	Diagnosis	ICD-10-CM
C46.5	Kaposi's sarcoma of lung	Diagnosis	ICD-10-CM
C46.50	Kaposi's sarcoma of unspecified lung	Diagnosis	ICD-10-CM
C46.51	Kaposi's sarcoma of right lung	Diagnosis	ICD-10-CM
C46.52	Kaposi's sarcoma of left lung	Diagnosis	ICD-10-CM
C46.7	Kaposi's sarcoma of other sites	Diagnosis	ICD-10-CM
C46.9	Kaposi's sarcoma, unspecified	Diagnosis	ICD-10-CM
C47	Malignant neoplasm of peripheral nerves and autonomic nervous system	Diagnosis	ICD-10-CM
C47.0	Malignant neoplasm of peripheral nerves of head, face and neck	Diagnosis	ICD-10-CM
C47.1	Malignant neoplasm of peripheral nerves of upper limb, including shoulder	Diagnosis	ICD-10-CM
C47.10	Malignant neoplasm of peripheral nerves of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C47.11	Malignant neoplasm of peripheral nerves of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C47.12	Malignant neoplasm of peripheral nerves of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C47.2	Malignant neoplasm of peripheral nerves of lower limb, including hip	Diagnosis	ICD-10-CM
C47.20	Malignant neoplasm of peripheral nerves of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C47.21	Malignant neoplasm of peripheral nerves of right lower limb, including hip	Diagnosis	ICD-10-CM
C47.22	Malignant neoplasm of peripheral nerves of left lower limb, including hip	Diagnosis	ICD-10-CM
C47.3	Malignant neoplasm of peripheral nerves of thorax	Diagnosis	ICD-10-CM
C47.4	Malignant neoplasm of peripheral nerves of abdomen	Diagnosis	ICD-10-CM
C47.5	Malignant neoplasm of peripheral nerves of pelvis	Diagnosis	ICD-10-CM
C47.6	Malignant neoplasm of peripheral nerves of trunk, unspecified	Diagnosis	ICD-10-CM
C47.8	Malignant neoplasm of overlapping sites of peripheral nerves and autonomic nervous system	Diagnosis	ICD-10-CM
C47.9	Malignant neoplasm of peripheral nerves and autonomic nervous system, unspecified	Diagnosis	ICD-10-CM
C48	Malignant neoplasm of retroperitoneum and peritoneum	Diagnosis	ICD-10-CM
C48.0	Malignant neoplasm of retroperitoneum	Diagnosis	ICD-10-CM
C48.1	Malignant neoplasm of specified parts of peritoneum	Diagnosis	ICD-10-CM
C48.2	Malignant neoplasm of peritoneum, unspecified	Diagnosis	ICD-10-CM
C48.8	Malignant neoplasm of overlapping sites of retroperitoneum and peritoneum	Diagnosis	ICD-10-CM
C49	Malignant neoplasm of other connective and soft tissue	Diagnosis	ICD-10-CM
C49.0	Malignant neoplasm of connective and soft tissue of head, face and neck	Diagnosis	ICD-10-CM
C49.1	Malignant neoplasm of connective and soft tissue of upper limb, including shoulder	Diagnosis	ICD-10-CM
C49.10	Malignant neoplasm of connective and soft tissue of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C49.11	Malignant neoplasm of connective and soft tissue of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C49.12	Malignant neoplasm of connective and soft tissue of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C49.2	Malignant neoplasm of connective and soft tissue of lower limb, including hip	Diagnosis	ICD-10-CM
C49.20	Malignant neoplasm of connective and soft tissue of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C49.21	Malignant neoplasm of connective and soft tissue of right lower limb, including hip	Diagnosis	ICD-10-CM
C49.22	Malignant neoplasm of connective and soft tissue of left lower limb, including hip	Diagnosis	ICD-10-CM
C49.3	Malignant neoplasm of connective and soft tissue of thorax	Diagnosis	ICD-10-CM
C49.4	Malignant neoplasm of connective and soft tissue of abdomen	Diagnosis	ICD-10-CM
C49.5	Malignant neoplasm of connective and soft tissue of pelvis	Diagnosis	ICD-10-CM
C49.6	Malignant neoplasm of connective and soft tissue of trunk, unspecified	Diagnosis	ICD-10-CM
C49.8	Malignant neoplasm of overlapping sites of connective and soft tissue	Diagnosis	ICD-10-CM
C49.9	Malignant neoplasm of connective and soft tissue, unspecified	Diagnosis	ICD-10-CM
C49.A	Gastrointestinal stromal tumor	Diagnosis	ICD-10-CM
C49.A0	Gastrointestinal stromal tumor, unspecified site	Diagnosis	ICD-10-CM
C49.A1	Gastrointestinal stromal tumor of esophagus	Diagnosis	ICD-10-CM
C49.A2	Gastrointestinal stromal tumor of stomach	Diagnosis	ICD-10-CM
C49.A3	Gastrointestinal stromal tumor of small intestine	Diagnosis	ICD-10-CM
C49.A4	Gastrointestinal stromal tumor of large intestine	Diagnosis	ICD-10-CM
C49.A5	Gastrointestinal stromal tumor of rectum	Diagnosis	ICD-10-CM
C49.A9	Gastrointestinal stromal tumor of other sites	Diagnosis	ICD-10-CM
C50	Malignant neoplasm of breast	Diagnosis	ICD-10-CM
C50.0	Malignant neoplasm of nipple and areola	Diagnosis	ICD-10-CM
C50.01	Malignant neoplasm of nipple and areola, female	Diagnosis	ICD-10-CM
C50.011	Malignant neoplasm of nipple and areola, right female breast	Diagnosis	ICD-10-CM
C50.012	Malignant neoplasm of nipple and areola, left female breast	Diagnosis	ICD-10-CM
C50.019	Malignant neoplasm of nipple and areola, unspecified female breast	Diagnosis	ICD-10-CM
C50.02	Malignant neoplasm of nipple and areola, male	Diagnosis	ICD-10-CM
C50.021	Malignant neoplasm of nipple and areola, right male breast	Diagnosis	ICD-10-CM
C50.022	Malignant neoplasm of nipple and areola, left male breast	Diagnosis	ICD-10-CM
C50.029	Malignant neoplasm of nipple and areola, unspecified male breast	Diagnosis	ICD-10-CM
C50.1	Malignant neoplasm of central portion of breast	Diagnosis	ICD-10-CM
C50.11	Malignant neoplasm of central portion of breast, female	Diagnosis	ICD-10-CM
C50.111	Malignant neoplasm of central portion of right female breast	Diagnosis	ICD-10-CM
C50.112	Malignant neoplasm of central portion of left female breast	Diagnosis	ICD-10-CM
C50.119	Malignant neoplasm of central portion of unspecified female breast	Diagnosis	ICD-10-CM
C50.12	Malignant neoplasm of central portion of breast, male	Diagnosis	ICD-10-CM
C50.121	Malignant neoplasm of central portion of right male breast	Diagnosis	ICD-10-CM
C50.122	Malignant neoplasm of central portion of left male breast	Diagnosis	ICD-10-CM
C50.129	Malignant neoplasm of central portion of unspecified male breast	Diagnosis	ICD-10-CM
C50.2	Malignant neoplasm of upper-inner quadrant of breast	Diagnosis	ICD-10-CM
C50.21	Malignant neoplasm of upper-inner quadrant of breast, female	Diagnosis	ICD-10-CM
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.22	Malignant neoplasm of upper-inner quadrant of breast, male	Diagnosis	ICD-10-CM
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.222	Malignant neoplasm of upper-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.3	Malignant neoplasm of lower-inner quadrant of breast	Diagnosis	ICD-10-CM
C50.31	Malignant neoplasm of lower-inner quadrant of breast, female	Diagnosis	ICD-10-CM
C50.311	Malignant neoplasm of lower-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.312	Malignant neoplasm of lower-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.32	Malignant neoplasm of lower-inner quadrant of breast, male	Diagnosis	ICD-10-CM
C50.321	Malignant neoplasm of lower-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.322	Malignant neoplasm of lower-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.4	Malignant neoplasm of upper-outer quadrant of breast	Diagnosis	ICD-10-CM
C50.41	Malignant neoplasm of upper-outer quadrant of breast, female	Diagnosis	ICD-10-CM
C50.411	Malignant neoplasm of upper-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.42	Malignant neoplasm of upper-outer quadrant of breast, male	Diagnosis	ICD-10-CM
C50.421	Malignant neoplasm of upper-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.422	Malignant neoplasm of upper-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.5	Malignant neoplasm of lower-outer quadrant of breast	Diagnosis	ICD-10-CM
C50.51	Malignant neoplasm of lower-outer quadrant of breast, female	Diagnosis	ICD-10-CM
C50.511	Malignant neoplasm of lower-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.512	Malignant neoplasm of lower-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.52	Malignant neoplasm of lower-outer quadrant of breast, male	Diagnosis	ICD-10-CM
C50.521	Malignant neoplasm of lower-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.522	Malignant neoplasm of lower-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.6	Malignant neoplasm of axillary tail of breast	Diagnosis	ICD-10-CM
C50.61	Malignant neoplasm of axillary tail of breast, female	Diagnosis	ICD-10-CM
C50.611	Malignant neoplasm of axillary tail of right female breast	Diagnosis	ICD-10-CM
C50.612	Malignant neoplasm of axillary tail of left female breast	Diagnosis	ICD-10-CM
C50.619	Malignant neoplasm of axillary tail of unspecified female breast	Diagnosis	ICD-10-CM
C50.62	Malignant neoplasm of axillary tail of breast, male	Diagnosis	ICD-10-CM
C50.621	Malignant neoplasm of axillary tail of right male breast	Diagnosis	ICD-10-CM
C50.622	Malignant neoplasm of axillary tail of left male breast	Diagnosis	ICD-10-CM
C50.629	Malignant neoplasm of axillary tail of unspecified male breast	Diagnosis	ICD-10-CM
C50.8	Malignant neoplasm of overlapping sites of breast	Diagnosis	ICD-10-CM
C50.81	Malignant neoplasm of overlapping sites of breast, female	Diagnosis	ICD-10-CM
C50.811	Malignant neoplasm of overlapping sites of right female breast	Diagnosis	ICD-10-CM
C50.812	Malignant neoplasm of overlapping sites of left female breast	Diagnosis	ICD-10-CM
C50.819	Malignant neoplasm of overlapping sites of unspecified female breast	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C50.82	Malignant neoplasm of overlapping sites of breast, male	Diagnosis	ICD-10-CM
C50.821	Malignant neoplasm of overlapping sites of right male breast	Diagnosis	ICD-10-CM
C50.822	Malignant neoplasm of overlapping sites of left male breast	Diagnosis	ICD-10-CM
C50.829	Malignant neoplasm of overlapping sites of unspecified male breast	Diagnosis	ICD-10-CM
C50.9	Malignant neoplasm of breast of unspecified site	Diagnosis	ICD-10-CM
C50.91	Malignant neoplasm of breast of unspecified site, female	Diagnosis	ICD-10-CM
C50.911	Malignant neoplasm of unspecified site of right female breast	Diagnosis	ICD-10-CM
C50.912	Malignant neoplasm of unspecified site of left female breast	Diagnosis	ICD-10-CM
C50.919	Malignant neoplasm of unspecified site of unspecified female breast	Diagnosis	ICD-10-CM
C50.92	Malignant neoplasm of breast of unspecified site, male	Diagnosis	ICD-10-CM
C50.921	Malignant neoplasm of unspecified site of right male breast	Diagnosis	ICD-10-CM
C50.922	Malignant neoplasm of unspecified site of left male breast	Diagnosis	ICD-10-CM
C50.929	Malignant neoplasm of unspecified site of unspecified male breast	Diagnosis	ICD-10-CM
C50.A	Malignant inflammatory neoplasm of breast	Diagnosis	ICD-10-CM
C50.A0	Malignant inflammatory neoplasm of unspecified breast	Diagnosis	ICD-10-CM
C50.A1	Malignant inflammatory neoplasm of right breast	Diagnosis	ICD-10-CM
C50.A2	Malignant inflammatory neoplasm of left breast	Diagnosis	ICD-10-CM
C51	Malignant neoplasm of vulva	Diagnosis	ICD-10-CM
C51.0	Malignant neoplasm of labium majus	Diagnosis	ICD-10-CM
C51.1	Malignant neoplasm of labium minus	Diagnosis	ICD-10-CM
C51.2	Malignant neoplasm of clitoris	Diagnosis	ICD-10-CM
C51.8	Malignant neoplasm of overlapping sites of vulva	Diagnosis	ICD-10-CM
C51.9	Malignant neoplasm of vulva, unspecified	Diagnosis	ICD-10-CM
C52	Malignant neoplasm of vagina	Diagnosis	ICD-10-CM
C53	Malignant neoplasm of cervix uteri	Diagnosis	ICD-10-CM
C53.0	Malignant neoplasm of endocervix	Diagnosis	ICD-10-CM
C53.1	Malignant neoplasm of exocervix	Diagnosis	ICD-10-CM
C53.8	Malignant neoplasm of overlapping sites of cervix uteri	Diagnosis	ICD-10-CM
C53.9	Malignant neoplasm of cervix uteri, unspecified	Diagnosis	ICD-10-CM
C54	Malignant neoplasm of corpus uteri	Diagnosis	ICD-10-CM
C54.0	Malignant neoplasm of isthmus uteri	Diagnosis	ICD-10-CM
C54.1	Malignant neoplasm of endometrium	Diagnosis	ICD-10-CM
C54.2	Malignant neoplasm of myometrium	Diagnosis	ICD-10-CM
C54.3	Malignant neoplasm of fundus uteri	Diagnosis	ICD-10-CM
C54.8	Malignant neoplasm of overlapping sites of corpus uteri	Diagnosis	ICD-10-CM
C54.9	Malignant neoplasm of corpus uteri, unspecified	Diagnosis	ICD-10-CM
C55	Malignant neoplasm of uterus, part unspecified	Diagnosis	ICD-10-CM
C56	Malignant neoplasm of ovary	Diagnosis	ICD-10-CM
C56.1	Malignant neoplasm of right ovary	Diagnosis	ICD-10-CM
C56.2	Malignant neoplasm of left ovary	Diagnosis	ICD-10-CM
C56.3	Malignant neoplasm of bilateral ovaries	Diagnosis	ICD-10-CM
C56.9	Malignant neoplasm of unspecified ovary	Diagnosis	ICD-10-CM
C57	Malignant neoplasm of other and unspecified female genital organs	Diagnosis	ICD-10-CM
C57.0	Malignant neoplasm of fallopian tube	Diagnosis	ICD-10-CM
C57.00	Malignant neoplasm of unspecified fallopian tube	Diagnosis	ICD-10-CM
C57.01	Malignant neoplasm of right fallopian tube	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C57.02	Malignant neoplasm of left fallopian tube	Diagnosis	ICD-10-CM
C57.1	Malignant neoplasm of broad ligament	Diagnosis	ICD-10-CM
C57.10	Malignant neoplasm of unspecified broad ligament	Diagnosis	ICD-10-CM
C57.11	Malignant neoplasm of right broad ligament	Diagnosis	ICD-10-CM
C57.12	Malignant neoplasm of left broad ligament	Diagnosis	ICD-10-CM
C57.2	Malignant neoplasm of round ligament	Diagnosis	ICD-10-CM
C57.20	Malignant neoplasm of unspecified round ligament	Diagnosis	ICD-10-CM
C57.21	Malignant neoplasm of right round ligament	Diagnosis	ICD-10-CM
C57.22	Malignant neoplasm of left round ligament	Diagnosis	ICD-10-CM
C57.3	Malignant neoplasm of parametrium	Diagnosis	ICD-10-CM
C57.4	Malignant neoplasm of uterine adnexa, unspecified	Diagnosis	ICD-10-CM
C57.7	Malignant neoplasm of other specified female genital organs	Diagnosis	ICD-10-CM
C57.8	Malignant neoplasm of overlapping sites of female genital organs	Diagnosis	ICD-10-CM
C57.9	Malignant neoplasm of female genital organ, unspecified	Diagnosis	ICD-10-CM
C58	Malignant neoplasm of placenta	Diagnosis	ICD-10-CM
C60	Malignant neoplasm of penis	Diagnosis	ICD-10-CM
C60.0	Malignant neoplasm of prepuce	Diagnosis	ICD-10-CM
C60.1	Malignant neoplasm of glans penis	Diagnosis	ICD-10-CM
C60.2	Malignant neoplasm of body of penis	Diagnosis	ICD-10-CM
C60.8	Malignant neoplasm of overlapping sites of penis	Diagnosis	ICD-10-CM
C60.9	Malignant neoplasm of penis, unspecified	Diagnosis	ICD-10-CM
C61	Malignant neoplasm of prostate	Diagnosis	ICD-10-CM
C62	Malignant neoplasm of testis	Diagnosis	ICD-10-CM
C62.0	Malignant neoplasm of undescended testis	Diagnosis	ICD-10-CM
C62.00	Malignant neoplasm of unspecified undescended testis	Diagnosis	ICD-10-CM
C62.01	Malignant neoplasm of undescended right testis	Diagnosis	ICD-10-CM
C62.02	Malignant neoplasm of undescended left testis	Diagnosis	ICD-10-CM
C62.1	Malignant neoplasm of descended testis	Diagnosis	ICD-10-CM
C62.10	Malignant neoplasm of unspecified descended testis	Diagnosis	ICD-10-CM
C62.11	Malignant neoplasm of descended right testis	Diagnosis	ICD-10-CM
C62.12	Malignant neoplasm of descended left testis	Diagnosis	ICD-10-CM
C62.9	Malignant neoplasm of testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C62.90	Malignant neoplasm of unspecified testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C62.91	Malignant neoplasm of right testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C62.92	Malignant neoplasm of left testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C63	Malignant neoplasm of other and unspecified male genital organs	Diagnosis	ICD-10-CM
C63.0	Malignant neoplasm of epididymis	Diagnosis	ICD-10-CM
C63.00	Malignant neoplasm of unspecified epididymis	Diagnosis	ICD-10-CM
C63.01	Malignant neoplasm of right epididymis	Diagnosis	ICD-10-CM
C63.02	Malignant neoplasm of left epididymis	Diagnosis	ICD-10-CM
C63.1	Malignant neoplasm of spermatic cord	Diagnosis	ICD-10-CM
C63.10	Malignant neoplasm of unspecified spermatic cord	Diagnosis	ICD-10-CM
C63.11	Malignant neoplasm of right spermatic cord	Diagnosis	ICD-10-CM
C63.12	Malignant neoplasm of left spermatic cord	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C63.2	Malignant neoplasm of scrotum	Diagnosis	ICD-10-CM
C63.7	Malignant neoplasm of other specified male genital organs	Diagnosis	ICD-10-CM
C63.8	Malignant neoplasm of overlapping sites of male genital organs	Diagnosis	ICD-10-CM
C63.9	Malignant neoplasm of male genital organ, unspecified	Diagnosis	ICD-10-CM
C64	Malignant neoplasm of kidney, except renal pelvis	Diagnosis	ICD-10-CM
C64.1	Malignant neoplasm of right kidney, except renal pelvis	Diagnosis	ICD-10-CM
C64.2	Malignant neoplasm of left kidney, except renal pelvis	Diagnosis	ICD-10-CM
C64.9	Malignant neoplasm of unspecified kidney, except renal pelvis	Diagnosis	ICD-10-CM
C65	Malignant neoplasm of renal pelvis	Diagnosis	ICD-10-CM
C65.1	Malignant neoplasm of right renal pelvis	Diagnosis	ICD-10-CM
C65.2	Malignant neoplasm of left renal pelvis	Diagnosis	ICD-10-CM
C65.9	Malignant neoplasm of unspecified renal pelvis	Diagnosis	ICD-10-CM
C66	Malignant neoplasm of ureter	Diagnosis	ICD-10-CM
C66.1	Malignant neoplasm of right ureter	Diagnosis	ICD-10-CM
C66.2	Malignant neoplasm of left ureter	Diagnosis	ICD-10-CM
C66.9	Malignant neoplasm of unspecified ureter	Diagnosis	ICD-10-CM
C67	Malignant neoplasm of bladder	Diagnosis	ICD-10-CM
C67.0	Malignant neoplasm of trigone of bladder	Diagnosis	ICD-10-CM
C67.1	Malignant neoplasm of dome of bladder	Diagnosis	ICD-10-CM
C67.2	Malignant neoplasm of lateral wall of bladder	Diagnosis	ICD-10-CM
C67.3	Malignant neoplasm of anterior wall of bladder	Diagnosis	ICD-10-CM
C67.4	Malignant neoplasm of posterior wall of bladder	Diagnosis	ICD-10-CM
C67.5	Malignant neoplasm of bladder neck	Diagnosis	ICD-10-CM
C67.6	Malignant neoplasm of ureteric orifice	Diagnosis	ICD-10-CM
C67.7	Malignant neoplasm of urachus	Diagnosis	ICD-10-CM
C67.8	Malignant neoplasm of overlapping sites of bladder	Diagnosis	ICD-10-CM
C67.9	Malignant neoplasm of bladder, unspecified	Diagnosis	ICD-10-CM
C68	Malignant neoplasm of other and unspecified urinary organs	Diagnosis	ICD-10-CM
C68.0	Malignant neoplasm of urethra	Diagnosis	ICD-10-CM
C68.1	Malignant neoplasm of paraurethral glands	Diagnosis	ICD-10-CM
C68.8	Malignant neoplasm of overlapping sites of urinary organs	Diagnosis	ICD-10-CM
C68.9	Malignant neoplasm of urinary organ, unspecified	Diagnosis	ICD-10-CM
C69	Malignant neoplasm of eye and adnexa	Diagnosis	ICD-10-CM
C69.0	Malignant neoplasm of conjunctiva	Diagnosis	ICD-10-CM
C69.00	Malignant neoplasm of unspecified conjunctiva	Diagnosis	ICD-10-CM
C69.01	Malignant neoplasm of right conjunctiva	Diagnosis	ICD-10-CM
C69.02	Malignant neoplasm of left conjunctiva	Diagnosis	ICD-10-CM
C69.1	Malignant neoplasm of cornea	Diagnosis	ICD-10-CM
C69.10	Malignant neoplasm of unspecified cornea	Diagnosis	ICD-10-CM
C69.11	Malignant neoplasm of right cornea	Diagnosis	ICD-10-CM
C69.12	Malignant neoplasm of left cornea	Diagnosis	ICD-10-CM
C69.2	Malignant neoplasm of retina	Diagnosis	ICD-10-CM
C69.20	Malignant neoplasm of unspecified retina	Diagnosis	ICD-10-CM
C69.21	Malignant neoplasm of right retina	Diagnosis	ICD-10-CM
C69.22	Malignant neoplasm of left retina	Diagnosis	ICD-10-CM
C69.3	Malignant neoplasm of choroid	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C69.30	Malignant neoplasm of unspecified choroid	Diagnosis	ICD-10-CM
C69.31	Malignant neoplasm of right choroid	Diagnosis	ICD-10-CM
C69.32	Malignant neoplasm of left choroid	Diagnosis	ICD-10-CM
C69.4	Malignant neoplasm of ciliary body	Diagnosis	ICD-10-CM
C69.40	Malignant neoplasm of unspecified ciliary body	Diagnosis	ICD-10-CM
C69.41	Malignant neoplasm of right ciliary body	Diagnosis	ICD-10-CM
C69.42	Malignant neoplasm of left ciliary body	Diagnosis	ICD-10-CM
C69.5	Malignant neoplasm of lacrimal gland and duct	Diagnosis	ICD-10-CM
C69.50	Malignant neoplasm of unspecified lacrimal gland and duct	Diagnosis	ICD-10-CM
C69.51	Malignant neoplasm of right lacrimal gland and duct	Diagnosis	ICD-10-CM
C69.52	Malignant neoplasm of left lacrimal gland and duct	Diagnosis	ICD-10-CM
C69.6	Malignant neoplasm of orbit	Diagnosis	ICD-10-CM
C69.60	Malignant neoplasm of unspecified orbit	Diagnosis	ICD-10-CM
C69.61	Malignant neoplasm of right orbit	Diagnosis	ICD-10-CM
C69.62	Malignant neoplasm of left orbit	Diagnosis	ICD-10-CM
C69.8	Malignant neoplasm of overlapping sites of eye and adnexa	Diagnosis	ICD-10-CM
C69.80	Malignant neoplasm of overlapping sites of unspecified eye and adnexa	Diagnosis	ICD-10-CM
C69.81	Malignant neoplasm of overlapping sites of right eye and adnexa	Diagnosis	ICD-10-CM
C69.82	Malignant neoplasm of overlapping sites of left eye and adnexa	Diagnosis	ICD-10-CM
C69.9	Malignant neoplasm of unspecified site of eye	Diagnosis	ICD-10-CM
C69.90	Malignant neoplasm of unspecified site of unspecified eye	Diagnosis	ICD-10-CM
C69.91	Malignant neoplasm of unspecified site of right eye	Diagnosis	ICD-10-CM
C69.92	Malignant neoplasm of unspecified site of left eye	Diagnosis	ICD-10-CM
C70	Malignant neoplasm of meninges	Diagnosis	ICD-10-CM
C70.0	Malignant neoplasm of cerebral meninges	Diagnosis	ICD-10-CM
C70.1	Malignant neoplasm of spinal meninges	Diagnosis	ICD-10-CM
C70.9	Malignant neoplasm of meninges, unspecified	Diagnosis	ICD-10-CM
C71	Malignant neoplasm of brain	Diagnosis	ICD-10-CM
C71.0	Malignant neoplasm of cerebrum, except lobes and ventricles	Diagnosis	ICD-10-CM
C71.1	Malignant neoplasm of frontal lobe	Diagnosis	ICD-10-CM
C71.2	Malignant neoplasm of temporal lobe	Diagnosis	ICD-10-CM
C71.3	Malignant neoplasm of parietal lobe	Diagnosis	ICD-10-CM
C71.4	Malignant neoplasm of occipital lobe	Diagnosis	ICD-10-CM
C71.5	Malignant neoplasm of cerebral ventricle	Diagnosis	ICD-10-CM
C71.6	Malignant neoplasm of cerebellum	Diagnosis	ICD-10-CM
C71.7	Malignant neoplasm of brain stem	Diagnosis	ICD-10-CM
C71.8	Malignant neoplasm of overlapping sites of brain	Diagnosis	ICD-10-CM
C71.9	Malignant neoplasm of brain, unspecified	Diagnosis	ICD-10-CM
C72	Malignant neoplasm of spinal cord, cranial nerves and other parts of central nervous system	Diagnosis	ICD-10-CM
C72.0	Malignant neoplasm of spinal cord	Diagnosis	ICD-10-CM
C72.1	Malignant neoplasm of cauda equina	Diagnosis	ICD-10-CM
C72.2	Malignant neoplasm of olfactory nerve	Diagnosis	ICD-10-CM
C72.20	Malignant neoplasm of unspecified olfactory nerve	Diagnosis	ICD-10-CM
C72.21	Malignant neoplasm of right olfactory nerve	Diagnosis	ICD-10-CM
C72.22	Malignant neoplasm of left olfactory nerve	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C72.3	Malignant neoplasm of optic nerve	Diagnosis	ICD-10-CM
C72.30	Malignant neoplasm of unspecified optic nerve	Diagnosis	ICD-10-CM
C72.31	Malignant neoplasm of right optic nerve	Diagnosis	ICD-10-CM
C72.32	Malignant neoplasm of left optic nerve	Diagnosis	ICD-10-CM
C72.4	Malignant neoplasm of acoustic nerve	Diagnosis	ICD-10-CM
C72.40	Malignant neoplasm of unspecified acoustic nerve	Diagnosis	ICD-10-CM
C72.41	Malignant neoplasm of right acoustic nerve	Diagnosis	ICD-10-CM
C72.42	Malignant neoplasm of left acoustic nerve	Diagnosis	ICD-10-CM
C72.5	Malignant neoplasm of other and unspecified cranial nerves	Diagnosis	ICD-10-CM
C72.50	Malignant neoplasm of unspecified cranial nerve	Diagnosis	ICD-10-CM
C72.59	Malignant neoplasm of other cranial nerves	Diagnosis	ICD-10-CM
C72.9	Malignant neoplasm of central nervous system, unspecified	Diagnosis	ICD-10-CM
C73	Malignant neoplasm of thyroid gland	Diagnosis	ICD-10-CM
C74	Malignant neoplasm of adrenal gland	Diagnosis	ICD-10-CM
C74.0	Malignant neoplasm of cortex of adrenal gland	Diagnosis	ICD-10-CM
C74.00	Malignant neoplasm of cortex of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.01	Malignant neoplasm of cortex of right adrenal gland	Diagnosis	ICD-10-CM
C74.02	Malignant neoplasm of cortex of left adrenal gland	Diagnosis	ICD-10-CM
C74.1	Malignant neoplasm of medulla of adrenal gland	Diagnosis	ICD-10-CM
C74.10	Malignant neoplasm of medulla of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.11	Malignant neoplasm of medulla of right adrenal gland	Diagnosis	ICD-10-CM
C74.12	Malignant neoplasm of medulla of left adrenal gland	Diagnosis	ICD-10-CM
C74.9	Malignant neoplasm of unspecified part of adrenal gland	Diagnosis	ICD-10-CM
C74.90	Malignant neoplasm of unspecified part of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.91	Malignant neoplasm of unspecified part of right adrenal gland	Diagnosis	ICD-10-CM
C74.92	Malignant neoplasm of unspecified part of left adrenal gland	Diagnosis	ICD-10-CM
C75	Malignant neoplasm of other endocrine glands and related structures	Diagnosis	ICD-10-CM
C75.0	Malignant neoplasm of parathyroid gland	Diagnosis	ICD-10-CM
C75.1	Malignant neoplasm of pituitary gland	Diagnosis	ICD-10-CM
C75.2	Malignant neoplasm of craniopharyngeal duct	Diagnosis	ICD-10-CM
C75.3	Malignant neoplasm of pineal gland	Diagnosis	ICD-10-CM
C75.4	Malignant neoplasm of carotid body	Diagnosis	ICD-10-CM
C75.5	Malignant neoplasm of aortic body and other paraganglia	Diagnosis	ICD-10-CM
C75.8	Malignant neoplasm with pluriglandular involvement, unspecified	Diagnosis	ICD-10-CM
C75.9	Malignant neoplasm of endocrine gland, unspecified	Diagnosis	ICD-10-CM
C76	Malignant neoplasm of other and ill-defined sites	Diagnosis	ICD-10-CM
C76.0	Malignant neoplasm of head, face and neck	Diagnosis	ICD-10-CM
C76.1	Malignant neoplasm of thorax	Diagnosis	ICD-10-CM
C76.2	Malignant neoplasm of abdomen	Diagnosis	ICD-10-CM
C76.3	Malignant neoplasm of pelvis	Diagnosis	ICD-10-CM
C76.4	Malignant neoplasm of upper limb	Diagnosis	ICD-10-CM
C76.40	Malignant neoplasm of unspecified upper limb	Diagnosis	ICD-10-CM
C76.41	Malignant neoplasm of right upper limb	Diagnosis	ICD-10-CM
C76.42	Malignant neoplasm of left upper limb	Diagnosis	ICD-10-CM
C76.5	Malignant neoplasm of lower limb	Diagnosis	ICD-10-CM
C76.50	Malignant neoplasm of unspecified lower limb	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C76.51	Malignant neoplasm of right lower limb	Diagnosis	ICD-10-CM
C76.52	Malignant neoplasm of left lower limb	Diagnosis	ICD-10-CM
C76.8	Malignant neoplasm of other specified ill-defined sites	Diagnosis	ICD-10-CM
C77	Secondary and unspecified malignant neoplasm of lymph nodes	Diagnosis	ICD-10-CM
C77.0	Secondary and unspecified malignant neoplasm of lymph nodes of head, face and neck	Diagnosis	ICD-10-CM
C77.1	Secondary and unspecified malignant neoplasm of intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C77.2	Secondary and unspecified malignant neoplasm of intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C77.3	Secondary and unspecified malignant neoplasm of axilla and upper limb lymph nodes	Diagnosis	ICD-10-CM
C77.4	Secondary and unspecified malignant neoplasm of inguinal and lower limb lymph nodes	Diagnosis	ICD-10-CM
C77.5	Secondary and unspecified malignant neoplasm of intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C77.8	Secondary and unspecified malignant neoplasm of lymph nodes of multiple regions	Diagnosis	ICD-10-CM
C77.9	Secondary and unspecified malignant neoplasm of lymph node, unspecified	Diagnosis	ICD-10-CM
C78	Secondary malignant neoplasm of respiratory and digestive organs	Diagnosis	ICD-10-CM
C78.0	Secondary malignant neoplasm of lung	Diagnosis	ICD-10-CM
C78.00	Secondary malignant neoplasm of unspecified lung	Diagnosis	ICD-10-CM
C78.01	Secondary malignant neoplasm of right lung	Diagnosis	ICD-10-CM
C78.02	Secondary malignant neoplasm of left lung	Diagnosis	ICD-10-CM
C78.1	Secondary malignant neoplasm of mediastinum	Diagnosis	ICD-10-CM
C78.2	Secondary malignant neoplasm of pleura	Diagnosis	ICD-10-CM
C78.3	Secondary malignant neoplasm of other and unspecified respiratory organs	Diagnosis	ICD-10-CM
C78.30	Secondary malignant neoplasm of unspecified respiratory organ	Diagnosis	ICD-10-CM
C78.39	Secondary malignant neoplasm of other respiratory organs	Diagnosis	ICD-10-CM
C78.4	Secondary malignant neoplasm of small intestine	Diagnosis	ICD-10-CM
C78.5	Secondary malignant neoplasm of large intestine and rectum	Diagnosis	ICD-10-CM
C78.6	Secondary malignant neoplasm of retroperitoneum and peritoneum	Diagnosis	ICD-10-CM
C78.7	Secondary malignant neoplasm of liver and intrahepatic bile duct	Diagnosis	ICD-10-CM
C78.8	Secondary malignant neoplasm of other and unspecified digestive organs	Diagnosis	ICD-10-CM
C78.80	Secondary malignant neoplasm of unspecified digestive organ	Diagnosis	ICD-10-CM
C78.89	Secondary malignant neoplasm of other digestive organs	Diagnosis	ICD-10-CM
C79	Secondary malignant neoplasm of other and unspecified sites	Diagnosis	ICD-10-CM
C79.0	Secondary malignant neoplasm of kidney and renal pelvis	Diagnosis	ICD-10-CM
C79.00	Secondary malignant neoplasm of unspecified kidney and renal pelvis	Diagnosis	ICD-10-CM
C79.01	Secondary malignant neoplasm of right kidney and renal pelvis	Diagnosis	ICD-10-CM
C79.02	Secondary malignant neoplasm of left kidney and renal pelvis	Diagnosis	ICD-10-CM
C79.1	Secondary malignant neoplasm of bladder and other and unspecified urinary organs	Diagnosis	ICD-10-CM
C79.10	Secondary malignant neoplasm of unspecified urinary organs	Diagnosis	ICD-10-CM
C79.11	Secondary malignant neoplasm of bladder	Diagnosis	ICD-10-CM
C79.19	Secondary malignant neoplasm of other urinary organs	Diagnosis	ICD-10-CM
C79.2	Secondary malignant neoplasm of skin	Diagnosis	ICD-10-CM
C79.3	Secondary malignant neoplasm of brain and cerebral meninges	Diagnosis	ICD-10-CM
C79.31	Secondary malignant neoplasm of brain	Diagnosis	ICD-10-CM
C79.32	Secondary malignant neoplasm of cerebral meninges	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C79.4	Secondary malignant neoplasm of other and unspecified parts of nervous system	Diagnosis	ICD-10-CM
C79.40	Secondary malignant neoplasm of unspecified part of nervous system	Diagnosis	ICD-10-CM
C79.49	Secondary malignant neoplasm of other parts of nervous system	Diagnosis	ICD-10-CM
C79.5	Secondary malignant neoplasm of bone and bone marrow	Diagnosis	ICD-10-CM
C79.51	Secondary malignant neoplasm of bone	Diagnosis	ICD-10-CM
C79.52	Secondary malignant neoplasm of bone marrow	Diagnosis	ICD-10-CM
C79.6	Secondary malignant neoplasm of ovary	Diagnosis	ICD-10-CM
C79.60	Secondary malignant neoplasm of unspecified ovary	Diagnosis	ICD-10-CM
C79.61	Secondary malignant neoplasm of right ovary	Diagnosis	ICD-10-CM
C79.62	Secondary malignant neoplasm of left ovary	Diagnosis	ICD-10-CM
C79.63	Secondary malignant neoplasm of bilateral ovaries	Diagnosis	ICD-10-CM
C79.7	Secondary malignant neoplasm of adrenal gland	Diagnosis	ICD-10-CM
C79.70	Secondary malignant neoplasm of unspecified adrenal gland	Diagnosis	ICD-10-CM
C79.71	Secondary malignant neoplasm of right adrenal gland	Diagnosis	ICD-10-CM
C79.72	Secondary malignant neoplasm of left adrenal gland	Diagnosis	ICD-10-CM
C79.8	Secondary malignant neoplasm of other specified sites	Diagnosis	ICD-10-CM
C79.81	Secondary malignant neoplasm of breast	Diagnosis	ICD-10-CM
C79.82	Secondary malignant neoplasm of genital organs	Diagnosis	ICD-10-CM
C79.89	Secondary malignant neoplasm of other specified sites	Diagnosis	ICD-10-CM
C79.9	Secondary malignant neoplasm of unspecified site	Diagnosis	ICD-10-CM
C7A	Malignant neuroendocrine tumors	Diagnosis	ICD-10-CM
C7A.0	Malignant carcinoid tumors	Diagnosis	ICD-10-CM
C7A.00	Malignant carcinoid tumor of unspecified site	Diagnosis	ICD-10-CM
C7A.01	Malignant carcinoid tumors of the small intestine	Diagnosis	ICD-10-CM
C7A.010	Malignant carcinoid tumor of the duodenum	Diagnosis	ICD-10-CM
C7A.011	Malignant carcinoid tumor of the jejunum	Diagnosis	ICD-10-CM
C7A.012	Malignant carcinoid tumor of the ileum	Diagnosis	ICD-10-CM
C7A.019	Malignant carcinoid tumor of the small intestine, unspecified portion	Diagnosis	ICD-10-CM
C7A.02	Malignant carcinoid tumors of the appendix, large intestine, and rectum	Diagnosis	ICD-10-CM
C7A.020	Malignant carcinoid tumor of the appendix	Diagnosis	ICD-10-CM
C7A.021	Malignant carcinoid tumor of the cecum	Diagnosis	ICD-10-CM
C7A.022	Malignant carcinoid tumor of the ascending colon	Diagnosis	ICD-10-CM
C7A.023	Malignant carcinoid tumor of the transverse colon	Diagnosis	ICD-10-CM
C7A.024	Malignant carcinoid tumor of the descending colon	Diagnosis	ICD-10-CM
C7A.025	Malignant carcinoid tumor of the sigmoid colon	Diagnosis	ICD-10-CM
C7A.026	Malignant carcinoid tumor of the rectum	Diagnosis	ICD-10-CM
C7A.029	Malignant carcinoid tumor of the large intestine, unspecified portion	Diagnosis	ICD-10-CM
C7A.09	Malignant carcinoid tumors of other sites	Diagnosis	ICD-10-CM
C7A.090	Malignant carcinoid tumor of the bronchus and lung	Diagnosis	ICD-10-CM
C7A.091	Malignant carcinoid tumor of the thymus	Diagnosis	ICD-10-CM
C7A.092	Malignant carcinoid tumor of the stomach	Diagnosis	ICD-10-CM
C7A.093	Malignant carcinoid tumor of the kidney	Diagnosis	ICD-10-CM
C7A.094	Malignant carcinoid tumor of the foregut, unspecified	Diagnosis	ICD-10-CM
C7A.095	Malignant carcinoid tumor of the midgut, unspecified	Diagnosis	ICD-10-CM
C7A.096	Malignant carcinoid tumor of the hindgut, unspecified	Diagnosis	ICD-10-CM
C7A.098	Malignant carcinoid tumors of other sites	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C7A.1	Malignant poorly differentiated neuroendocrine tumors	Diagnosis	ICD-10-CM
C7A.8	Other malignant neuroendocrine tumors	Diagnosis	ICD-10-CM
C7B	Secondary neuroendocrine tumors	Diagnosis	ICD-10-CM
C7B.0	Secondary carcinoid tumors	Diagnosis	ICD-10-CM
C7B.00	Secondary carcinoid tumors, unspecified site	Diagnosis	ICD-10-CM
C7B.01	Secondary carcinoid tumors of distant lymph nodes	Diagnosis	ICD-10-CM
C7B.02	Secondary carcinoid tumors of liver	Diagnosis	ICD-10-CM
C7B.03	Secondary carcinoid tumors of bone	Diagnosis	ICD-10-CM
C7B.04	Secondary carcinoid tumors of peritoneum	Diagnosis	ICD-10-CM
C7B.09	Secondary carcinoid tumors of other sites	Diagnosis	ICD-10-CM
C7B.1	Secondary Merkel cell carcinoma	Diagnosis	ICD-10-CM
C7B.8	Other secondary neuroendocrine tumors	Diagnosis	ICD-10-CM
C80	Malignant neoplasm without specification of site	Diagnosis	ICD-10-CM
C80.0	Disseminated malignant neoplasm, unspecified	Diagnosis	ICD-10-CM
C80.1	Malignant (primary) neoplasm, unspecified	Diagnosis	ICD-10-CM
C80.2	Malignant neoplasm associated with transplanted organ	Diagnosis	ICD-10-CM
C81	Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.0	Nodular lymphocyte predominant Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.00	Nodular lymphocyte predominant Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.01	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.02	Nodular lymphocyte predominant Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.03	Nodular lymphocyte predominant Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.04	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.05	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.06	Nodular lymphocyte predominant Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.07	Nodular lymphocyte predominant Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.08	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.09	Nodular lymphocyte predominant Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.0A	Nodular lymphocyte predominant Hodgkin lymphoma, in remission	Diagnosis	ICD-10-CM
C81.1	Nodular sclerosis Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.10	Nodular sclerosis Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.11	Nodular sclerosis Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.12	Nodular sclerosis Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.13	Nodular sclerosis Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.14	Nodular sclerosis Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.15	Nodular sclerosis Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.16	Nodular sclerosis Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.17	Nodular sclerosis Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.18	Nodular sclerosis Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C81.19	Nodular sclerosis Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.1A	Nodular sclerosis Hodgkin lymphoma, in remission	Diagnosis	ICD-10-CM
C81.2	Mixed cellularity Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.20	Mixed cellularity Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.21	Mixed cellularity Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.22	Mixed cellularity Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.23	Mixed cellularity Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.24	Mixed cellularity Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.25	Mixed cellularity Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.26	Mixed cellularity Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.27	Mixed cellularity Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.28	Mixed cellularity Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.29	Mixed cellularity Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.2A	Mixed cellularity Hodgkin lymphoma, in remission	Diagnosis	ICD-10-CM
C81.3	Lymphocyte depleted Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.30	Lymphocyte depleted Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.31	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.32	Lymphocyte depleted Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.33	Lymphocyte depleted Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.34	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.35	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.36	Lymphocyte depleted Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.37	Lymphocyte depleted Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.38	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.39	Lymphocyte depleted Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.3A	Lymphocyte depleted Hodgkin lymphoma, in remission	Diagnosis	ICD-10-CM
C81.4	Lymphocyte-rich Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.40	Lymphocyte-rich Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.41	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.42	Lymphocyte-rich Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.43	Lymphocyte-rich Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.44	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.45	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.46	Lymphocyte-rich Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.47	Lymphocyte-rich Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.48	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.49	Lymphocyte-rich Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.4A	Lymphocyte-rich Hodgkin lymphoma, in remission	Diagnosis	ICD-10-CM
C81.7	Other Hodgkin lymphoma	Diagnosis	ICD-10-CM
C81.70	Other Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.71	Other Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.72	Other Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.73	Other Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C81.74	Other Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.75	Other Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.76	Other Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.77	Other Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.78	Other Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.79	Other Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.7A	Other Hodgkin lymphoma, in remission	Diagnosis	ICD-10-CM
C81.9	Hodgkin lymphoma, unspecified	Diagnosis	ICD-10-CM
C81.90	Hodgkin lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C81.91	Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.92	Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.93	Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.94	Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.95	Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.96	Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.97	Hodgkin lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C81.98	Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.99	Hodgkin lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.9A	Hodgkin lymphoma, unspecified, in remission	Diagnosis	ICD-10-CM
C82	Follicular lymphoma	Diagnosis	ICD-10-CM
C82.0	Follicular lymphoma grade I	Diagnosis	ICD-10-CM
C82.00	Follicular lymphoma grade I, unspecified site	Diagnosis	ICD-10-CM
C82.01	Follicular lymphoma grade I, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.02	Follicular lymphoma grade I, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.03	Follicular lymphoma grade I, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.04	Follicular lymphoma grade I, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.05	Follicular lymphoma grade I, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.06	Follicular lymphoma grade I, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.07	Follicular lymphoma grade I, spleen	Diagnosis	ICD-10-CM
C82.08	Follicular lymphoma grade I, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.09	Follicular lymphoma grade I, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.0A	Follicular lymphoma grade I, in remission	Diagnosis	ICD-10-CM
C82.1	Follicular lymphoma grade II	Diagnosis	ICD-10-CM
C82.10	Follicular lymphoma grade II, unspecified site	Diagnosis	ICD-10-CM
C82.11	Follicular lymphoma grade II, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.12	Follicular lymphoma grade II, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.13	Follicular lymphoma grade II, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.14	Follicular lymphoma grade II, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.15	Follicular lymphoma grade II, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.16	Follicular lymphoma grade II, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.17	Follicular lymphoma grade II, spleen	Diagnosis	ICD-10-CM
C82.18	Follicular lymphoma grade II, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.19	Follicular lymphoma grade II, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.1A	Follicular lymphoma grade II, in remission	Diagnosis	ICD-10-CM
C82.2	Follicular lymphoma grade III, unspecified	Diagnosis	ICD-10-CM
C82.20	Follicular lymphoma grade III, unspecified, unspecified site	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C82.21	Follicular lymphoma grade III, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.22	Follicular lymphoma grade III, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.23	Follicular lymphoma grade III, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.24	Follicular lymphoma grade III, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.25	Follicular lymphoma grade III, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.26	Follicular lymphoma grade III, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.27	Follicular lymphoma grade III, unspecified, spleen	Diagnosis	ICD-10-CM
C82.28	Follicular lymphoma grade III, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.29	Follicular lymphoma grade III, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.2A	Follicular lymphoma grade III, unspecified, in remission	Diagnosis	ICD-10-CM
C82.3	Follicular lymphoma grade IIIa	Diagnosis	ICD-10-CM
C82.30	Follicular lymphoma grade IIIa, unspecified site	Diagnosis	ICD-10-CM
C82.31	Follicular lymphoma grade IIIa, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.32	Follicular lymphoma grade IIIa, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.33	Follicular lymphoma grade IIIa, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.34	Follicular lymphoma grade IIIa, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.35	Follicular lymphoma grade IIIa, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.36	Follicular lymphoma grade IIIa, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.37	Follicular lymphoma grade IIIa, spleen	Diagnosis	ICD-10-CM
C82.38	Follicular lymphoma grade IIIa, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.39	Follicular lymphoma grade IIIa, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.3A	Follicular lymphoma grade IIIa, in remission	Diagnosis	ICD-10-CM
C82.4	Follicular lymphoma grade IIIb	Diagnosis	ICD-10-CM
C82.40	Follicular lymphoma grade IIIb, unspecified site	Diagnosis	ICD-10-CM
C82.41	Follicular lymphoma grade IIIb, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.42	Follicular lymphoma grade IIIb, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.43	Follicular lymphoma grade IIIb, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.44	Follicular lymphoma grade IIIb, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.45	Follicular lymphoma grade IIIb, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.46	Follicular lymphoma grade IIIb, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.47	Follicular lymphoma grade IIIb, spleen	Diagnosis	ICD-10-CM
C82.48	Follicular lymphoma grade IIIb, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.49	Follicular lymphoma grade IIIb, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.4A	Follicular lymphoma grade IIIb, in remission	Diagnosis	ICD-10-CM
C82.5	Diffuse follicle center lymphoma	Diagnosis	ICD-10-CM
C82.50	Diffuse follicle center lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.51	Diffuse follicle center lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.52	Diffuse follicle center lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.53	Diffuse follicle center lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.54	Diffuse follicle center lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.55	Diffuse follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.56	Diffuse follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.57	Diffuse follicle center lymphoma, spleen	Diagnosis	ICD-10-CM
C82.58	Diffuse follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.59	Diffuse follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C82.5A	Diffuse follicle center lymphoma, in remission	Diagnosis	ICD-10-CM
C82.6	Cutaneous follicle center lymphoma	Diagnosis	ICD-10-CM
C82.60	Cutaneous follicle center lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.61	Cutaneous follicle center lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.62	Cutaneous follicle center lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.63	Cutaneous follicle center lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.64	Cutaneous follicle center lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.65	Cutaneous follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.66	Cutaneous follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.67	Cutaneous follicle center lymphoma, spleen	Diagnosis	ICD-10-CM
C82.68	Cutaneous follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.69	Cutaneous follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.6A	Cutaneous follicle center lymphoma, in remission	Diagnosis	ICD-10-CM
C82.8	Other types of follicular lymphoma	Diagnosis	ICD-10-CM
C82.80	Other types of follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.81	Other types of follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.82	Other types of follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.83	Other types of follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.84	Other types of follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.85	Other types of follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.86	Other types of follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.87	Other types of follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C82.88	Other types of follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.89	Other types of follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.8A	Other types of follicular lymphoma, in remission	Diagnosis	ICD-10-CM
C82.9	Follicular lymphoma, unspecified	Diagnosis	ICD-10-CM
C82.90	Follicular lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C82.91	Follicular lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.92	Follicular lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.93	Follicular lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.94	Follicular lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.95	Follicular lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.96	Follicular lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.97	Follicular lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C82.98	Follicular lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.99	Follicular lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.9A	Follicular lymphoma, unspecified, in remission	Diagnosis	ICD-10-CM
C83	Non-follicular lymphoma	Diagnosis	ICD-10-CM
C83.0	Small cell B-cell lymphoma	Diagnosis	ICD-10-CM
C83.00	Small cell B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.01	Small cell B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.02	Small cell B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.03	Small cell B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.04	Small cell B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.05	Small cell B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.06	Small cell B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C83.07	Small cell B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.08	Small cell B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.09	Small cell B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.0A	Small cell B-cell lymphoma, in remission	Diagnosis	ICD-10-CM
C83.1	Mantle cell lymphoma	Diagnosis	ICD-10-CM
C83.10	Mantle cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.11	Mantle cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.12	Mantle cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.13	Mantle cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.14	Mantle cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.15	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.16	Mantle cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.17	Mantle cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.18	Mantle cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.19	Mantle cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.1A	Mantle cell lymphoma, in remission	Diagnosis	ICD-10-CM
C83.3	Diffuse large B-cell lymphoma	Diagnosis	ICD-10-CM
C83.30	Diffuse large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.31	Diffuse large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.32	Diffuse large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.33	Diffuse large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.34	Diffuse large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.35	Diffuse large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.36	Diffuse large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.37	Diffuse large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.38	Diffuse large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.39	Diffuse large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.390	Primary central nervous system lymphoma	Diagnosis	ICD-10-CM
C83.398	Diffuse large B-cell lymphoma of other extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.3A	Diffuse large B-cell lymphoma, in remission	Diagnosis	ICD-10-CM
C83.5	Lymphoblastic (diffuse) lymphoma	Diagnosis	ICD-10-CM
C83.50	Lymphoblastic (diffuse) lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.51	Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.52	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.53	Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.54	Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.55	Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.56	Lymphoblastic (diffuse) lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.57	Lymphoblastic (diffuse) lymphoma, spleen	Diagnosis	ICD-10-CM
C83.58	Lymphoblastic (diffuse) lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.59	Lymphoblastic (diffuse) lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.5A	Lymphoblastic (diffuse) lymphoma, in remission	Diagnosis	ICD-10-CM
C83.7	Burkitt lymphoma	Diagnosis	ICD-10-CM
C83.70	Burkitt lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.71	Burkitt lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.72	Burkitt lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C83.73	Burkitt lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.74	Burkitt lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.75	Burkitt lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.76	Burkitt lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.77	Burkitt lymphoma, spleen	Diagnosis	ICD-10-CM
C83.78	Burkitt lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.79	Burkitt lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.7A	Burkitt lymphoma, in remission	Diagnosis	ICD-10-CM
C83.8	Other non-follicular lymphoma	Diagnosis	ICD-10-CM
C83.80	Other non-follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.81	Other non-follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.82	Other non-follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.83	Other non-follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.84	Other non-follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.85	Other non-follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.86	Other non-follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.87	Other non-follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C83.88	Other non-follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.89	Other non-follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.8A	Other non-follicular lymphoma, in remission	Diagnosis	ICD-10-CM
C83.9	Non-follicular (diffuse) lymphoma, unspecified	Diagnosis	ICD-10-CM
C83.90	Non-follicular (diffuse) lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C83.91	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.92	Non-follicular (diffuse) lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.93	Non-follicular (diffuse) lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.94	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.95	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.96	Non-follicular (diffuse) lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.97	Non-follicular (diffuse) lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C83.98	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.99	Non-follicular (diffuse) lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.9A	Non-follicular (diffuse) lymphoma, unspecified, in remission	Diagnosis	ICD-10-CM
C84	Mature T/NK-cell lymphomas	Diagnosis	ICD-10-CM
C84.0	Mycosis fungoides	Diagnosis	ICD-10-CM
C84.00	Mycosis fungoides, unspecified site	Diagnosis	ICD-10-CM
C84.01	Mycosis fungoides, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.02	Mycosis fungoides, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.03	Mycosis fungoides, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.04	Mycosis fungoides, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.05	Mycosis fungoides, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.06	Mycosis fungoides, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.07	Mycosis fungoides, spleen	Diagnosis	ICD-10-CM
C84.08	Mycosis fungoides, lymph nodes of multiple sites	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C84.09	Mycosis fungoides, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.0A	Mycosis fungoides, in remission	Diagnosis	ICD-10-CM
C84.1	Sezary disease	Diagnosis	ICD-10-CM
C84.10	Sezary disease, unspecified site	Diagnosis	ICD-10-CM
C84.11	Sezary disease, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.12	Sezary disease, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.13	Sezary disease, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.14	Sezary disease, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.15	Sezary disease, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.16	Sezary disease, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.17	Sezary disease, spleen	Diagnosis	ICD-10-CM
C84.18	Sezary disease, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.19	Sezary disease, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.1A	Sezary disease, in remission	Diagnosis	ICD-10-CM
C84.4	Peripheral T-cell lymphoma, not elsewhere classified	Diagnosis	ICD-10-CM
C84.40	Peripheral T-cell lymphoma, not elsewhere classified, unspecified site	Diagnosis	ICD-10-CM
C84.41	Peripheral T-cell lymphoma, not elsewhere classified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.42	Peripheral T-cell lymphoma, not elsewhere classified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.43	Peripheral T-cell lymphoma, not elsewhere classified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.44	Peripheral T-cell lymphoma, not elsewhere classified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.45	Peripheral T-cell lymphoma, not elsewhere classified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.46	Peripheral T-cell lymphoma, not elsewhere classified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.47	Peripheral T-cell lymphoma, not elsewhere classified, spleen	Diagnosis	ICD-10-CM
C84.48	Peripheral T-cell lymphoma, not elsewhere classified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.49	Peripheral T-cell lymphoma, not elsewhere classified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.4A	Peripheral T-cell lymphoma, not elsewhere classified, in remission	Diagnosis	ICD-10-CM
C84.6	Anaplastic large cell lymphoma, ALK-positive	Diagnosis	ICD-10-CM
C84.60	Anaplastic large cell lymphoma, ALK-positive, unspecified site	Diagnosis	ICD-10-CM
C84.61	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.62	Anaplastic large cell lymphoma, ALK-positive, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.63	Anaplastic large cell lymphoma, ALK-positive, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.64	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.65	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.66	Anaplastic large cell lymphoma, ALK-positive, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.67	Anaplastic large cell lymphoma, ALK-positive, spleen	Diagnosis	ICD-10-CM
C84.68	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.69	Anaplastic large cell lymphoma, ALK-positive, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.6A	Anaplastic large cell lymphoma, ALK-positive, in remission	Diagnosis	ICD-10-CM
C84.7	Anaplastic large cell lymphoma, ALK-negative	Diagnosis	ICD-10-CM
C84.70	Anaplastic large cell lymphoma, ALK-negative, unspecified site	Diagnosis	ICD-10-CM
C84.71	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C84.72	Anaplastic large cell lymphoma, ALK-negative, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.73	Anaplastic large cell lymphoma, ALK-negative, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.74	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.75	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.76	Anaplastic large cell lymphoma, ALK-negative, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.77	Anaplastic large cell lymphoma, ALK-negative, spleen	Diagnosis	ICD-10-CM
C84.78	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.79	Anaplastic large cell lymphoma, ALK-negative, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.7A	Anaplastic large cell lymphoma, ALK-negative, breast	Diagnosis	ICD-10-CM
C84.7B	Anaplastic large cell lymphoma, ALK-negative, in remission	Diagnosis	ICD-10-CM
C84.9	Mature T/NK-cell lymphomas, unspecified	Diagnosis	ICD-10-CM
C84.90	Mature T/NK-cell lymphomas, unspecified, unspecified site	Diagnosis	ICD-10-CM
C84.91	Mature T/NK-cell lymphomas, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.92	Mature T/NK-cell lymphomas, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.93	Mature T/NK-cell lymphomas, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.94	Mature T/NK-cell lymphomas, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.95	Mature T/NK-cell lymphomas, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.96	Mature T/NK-cell lymphomas, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.97	Mature T/NK-cell lymphomas, unspecified, spleen	Diagnosis	ICD-10-CM
C84.98	Mature T/NK-cell lymphomas, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.99	Mature T/NK-cell lymphomas, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.9A	Mature T/NK-cell lymphomas, unspecified, in remission	Diagnosis	ICD-10-CM
C84.A	Cutaneous T-cell lymphoma, unspecified	Diagnosis	ICD-10-CM
C84.A0	Cutaneous T-cell lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C84.A1	Cutaneous T-cell lymphoma, unspecified lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.A2	Cutaneous T-cell lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.A3	Cutaneous T-cell lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.A4	Cutaneous T-cell lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.A5	Cutaneous T-cell lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.A6	Cutaneous T-cell lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.A7	Cutaneous T-cell lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C84.A8	Cutaneous T-cell lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.A9	Cutaneous T-cell lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.AA	Cutaneous T-cell lymphoma, unspecified, in remission	Diagnosis	ICD-10-CM
C84.Z	Other mature T/NK-cell lymphomas	Diagnosis	ICD-10-CM
C84.Z0	Other mature T/NK-cell lymphomas, unspecified site	Diagnosis	ICD-10-CM
C84.Z1	Other mature T/NK-cell lymphomas, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.Z2	Other mature T/NK-cell lymphomas, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.Z3	Other mature T/NK-cell lymphomas, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.Z4	Other mature T/NK-cell lymphomas, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.Z5	Other mature T/NK-cell lymphomas, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.Z6	Other mature T/NK-cell lymphomas, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.Z7	Other mature T/NK-cell lymphomas, spleen	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C84.Z8	Other mature T/NK-cell lymphomas, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.Z9	Other mature T/NK-cell lymphomas, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.ZA	Other mature T/NK-cell lymphomas, in remission	Diagnosis	ICD-10-CM
C85	Other specified and unspecified types of non-Hodgkin lymphoma	Diagnosis	ICD-10-CM
C85.1	Unspecified B-cell lymphoma	Diagnosis	ICD-10-CM
C85.10	Unspecified B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.11	Unspecified B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.12	Unspecified B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.13	Unspecified B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.14	Unspecified B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.15	Unspecified B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.16	Unspecified B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.17	Unspecified B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C85.18	Unspecified B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.19	Unspecified B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.1A	Unspecified B-cell lymphoma, in remission	Diagnosis	ICD-10-CM
C85.2	Mediastinal (thymic) large B-cell lymphoma	Diagnosis	ICD-10-CM
C85.20	Mediastinal (thymic) large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.21	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.22	Mediastinal (thymic) large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.23	Mediastinal (thymic) large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.24	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.25	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.26	Mediastinal (thymic) large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.27	Mediastinal (thymic) large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C85.28	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.29	Mediastinal (thymic) large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.2A	Mediastinal (thymic) large B-cell lymphoma, in remission	Diagnosis	ICD-10-CM
C85.8	Other specified types of non-Hodgkin lymphoma	Diagnosis	ICD-10-CM
C85.80	Other specified types of non-Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.81	Other specified types of non-Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.82	Other specified types of non-Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.83	Other specified types of non-Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.84	Other specified types of non-Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.85	Other specified types of non-Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.86	Other specified types of non-Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.87	Other specified types of non-Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C85.88	Other specified types of non-Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.89	Other specified types of non-Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.8A	Other specified types of non-Hodgkin lymphoma, in remission	Diagnosis	ICD-10-CM
C85.9	Non-Hodgkin lymphoma, unspecified	Diagnosis	ICD-10-CM
C85.90	Non-Hodgkin lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C85.91	Non-Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.92	Non-Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.93	Non-Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.94	Non-Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.95	Non-Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.96	Non-Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.97	Non-Hodgkin lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C85.98	Non-Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.99	Non-Hodgkin lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.9A	Non-Hodgkin lymphoma, unspecified, in remission	Diagnosis	ICD-10-CM
C86	Other specified types of T/NK-cell lymphoma	Diagnosis	ICD-10-CM
C86.0	Extranodal NK/T-cell lymphoma, nasal type	Diagnosis	ICD-10-CM
C86.00	Extranodal NK/T-cell lymphoma, nasal type not having achieved remission	Diagnosis	ICD-10-CM
C86.01	Extranodal NK/T-cell lymphoma, nasal type, in remission	Diagnosis	ICD-10-CM
C86.1	Hepatosplenic T-cell lymphoma	Diagnosis	ICD-10-CM
C86.10	Hepatosplenic T-cell lymphoma not having achieved remission	Diagnosis	ICD-10-CM
C86.11	Hepatosplenic T-cell lymphoma, in remission	Diagnosis	ICD-10-CM
C86.2	Enteropathy-type (intestinal) T-cell lymphoma	Diagnosis	ICD-10-CM
C86.20	Enteropathy-type (intestinal) T-cell lymphoma not having achieved remission	Diagnosis	ICD-10-CM
C86.21	Enteropathy-type (intestinal) T-cell lymphoma, in remission	Diagnosis	ICD-10-CM
C86.3	Subcutaneous panniculitis-like T-cell lymphoma	Diagnosis	ICD-10-CM
C86.30	Subcutaneous panniculitis-like T-cell lymphoma not having achieved remission	Diagnosis	ICD-10-CM
C86.31	Subcutaneous panniculitis-like T-cell lymphoma, in remission	Diagnosis	ICD-10-CM
C86.4	Blastic NK-cell lymphoma	Diagnosis	ICD-10-CM
C86.40	Blastic NK-cell lymphoma not having achieved remission	Diagnosis	ICD-10-CM
C86.41	Blastic NK-cell lymphoma, in remission	Diagnosis	ICD-10-CM
C86.5	Angioimmunoblastic T-cell lymphoma	Diagnosis	ICD-10-CM
C86.50	Angioimmunoblastic T-cell lymphoma not having achieved remission	Diagnosis	ICD-10-CM
C86.51	Angioimmunoblastic T-cell lymphoma, in remission	Diagnosis	ICD-10-CM
C86.6	Primary cutaneous CD30-positive T-cell proliferations	Diagnosis	ICD-10-CM
C86.60	Primary cutaneous CD30-positive T-cell proliferations not having achieved remission	Diagnosis	ICD-10-CM
C86.61	Primary cutaneous CD30-positive T-cell proliferations, in remission	Diagnosis	ICD-10-CM
C88	Malignant immunoproliferative diseases and certain other B-cell lymphomas	Diagnosis	ICD-10-CM
C88.0	Waldenstrom macroglobulinemia	Diagnosis	ICD-10-CM
C88.00	Waldenstrom macroglobulinemia not having achieved remission	Diagnosis	ICD-10-CM
C88.01	Waldenstrom macroglobulinemia, in remission	Diagnosis	ICD-10-CM
C88.2	Heavy chain disease	Diagnosis	ICD-10-CM
C88.20	Heavy chain disease not having achieved remission	Diagnosis	ICD-10-CM
C88.21	Heavy chain disease, in remission	Diagnosis	ICD-10-CM
C88.3	Immunoproliferative small intestinal disease	Diagnosis	ICD-10-CM
C88.30	Immunoproliferative small intestinal disease not having achieved remission	Diagnosis	ICD-10-CM
C88.31	Immunoproliferative small intestinal disease, in remission	Diagnosis	ICD-10-CM
C88.4	Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue [MALT-lymphoma]	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C88.40	Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue [MALT-lymphoma] not having achieved remission	Diagnosis	ICD-10-CM
C88.41	Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue [MALT-lymphoma], in remission	Diagnosis	ICD-10-CM
C88.8	Other malignant immunoproliferative diseases	Diagnosis	ICD-10-CM
C88.80	Other malignant immunoproliferative diseases not having achieved remission	Diagnosis	ICD-10-CM
C88.81	Other malignant immunoproliferative diseases, in remission	Diagnosis	ICD-10-CM
C88.9	Malignant immunoproliferative disease, unspecified	Diagnosis	ICD-10-CM
C88.90	Malignant immunoproliferative disease, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C88.91	Malignant immunoproliferative disease, unspecified, in remission	Diagnosis	ICD-10-CM
C90	Multiple myeloma and malignant plasma cell neoplasms	Diagnosis	ICD-10-CM
C90.0	Multiple myeloma	Diagnosis	ICD-10-CM
C90.00	Multiple myeloma not having achieved remission	Diagnosis	ICD-10-CM
C90.01	Multiple myeloma in remission	Diagnosis	ICD-10-CM
C90.02	Multiple myeloma in relapse	Diagnosis	ICD-10-CM
C90.1	Plasma cell leukemia	Diagnosis	ICD-10-CM
C90.10	Plasma cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C90.11	Plasma cell leukemia in remission	Diagnosis	ICD-10-CM
C90.12	Plasma cell leukemia in relapse	Diagnosis	ICD-10-CM
C90.2	Extramedullary plasmacytoma	Diagnosis	ICD-10-CM
C90.20	Extramedullary plasmacytoma not having achieved remission	Diagnosis	ICD-10-CM
C90.21	Extramedullary plasmacytoma in remission	Diagnosis	ICD-10-CM
C90.22	Extramedullary plasmacytoma in relapse	Diagnosis	ICD-10-CM
C90.3	Solitary plasmacytoma	Diagnosis	ICD-10-CM
C90.30	Solitary plasmacytoma not having achieved remission	Diagnosis	ICD-10-CM
C90.31	Solitary plasmacytoma in remission	Diagnosis	ICD-10-CM
C90.32	Solitary plasmacytoma in relapse	Diagnosis	ICD-10-CM
C91	Lymphoid leukemia	Diagnosis	ICD-10-CM
C91.0	Acute lymphoblastic leukemia [ALL]	Diagnosis	ICD-10-CM
C91.00	Acute lymphoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.01	Acute lymphoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C91.02	Acute lymphoblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C91.1	Chronic lymphocytic leukemia of B-cell type	Diagnosis	ICD-10-CM
C91.10	Chronic lymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.11	Chronic lymphocytic leukemia of B-cell type in remission	Diagnosis	ICD-10-CM
C91.12	Chronic lymphocytic leukemia of B-cell type in relapse	Diagnosis	ICD-10-CM
C91.3	Prolymphocytic leukemia of B-cell type	Diagnosis	ICD-10-CM
C91.30	Prolymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.31	Prolymphocytic leukemia of B-cell type, in remission	Diagnosis	ICD-10-CM
C91.32	Prolymphocytic leukemia of B-cell type, in relapse	Diagnosis	ICD-10-CM
C91.4	Hairy cell leukemia	Diagnosis	ICD-10-CM
C91.40	Hairy cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.41	Hairy cell leukemia, in remission	Diagnosis	ICD-10-CM
C91.42	Hairy cell leukemia, in relapse	Diagnosis	ICD-10-CM
C91.5	Adult T-cell lymphoma/leukemia (HTLV-1-associated)	Diagnosis	ICD-10-CM
C91.50	Adult T-cell lymphoma/leukemia (HTLV-1-associated) not having achieved remission	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C91.51	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in remission	Diagnosis	ICD-10-CM
C91.52	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in relapse	Diagnosis	ICD-10-CM
C91.6	Prolymphocytic leukemia of T-cell type	Diagnosis	ICD-10-CM
C91.60	Prolymphocytic leukemia of T-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.61	Prolymphocytic leukemia of T-cell type, in remission	Diagnosis	ICD-10-CM
C91.62	Prolymphocytic leukemia of T-cell type, in relapse	Diagnosis	ICD-10-CM
C91.9	Lymphoid leukemia, unspecified	Diagnosis	ICD-10-CM
C91.90	Lymphoid leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C91.91	Lymphoid leukemia, unspecified, in remission	Diagnosis	ICD-10-CM
C91.92	Lymphoid leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C91.A	Mature B-cell leukemia Burkitt-type	Diagnosis	ICD-10-CM
C91.A0	Mature B-cell leukemia Burkitt-type not having achieved remission	Diagnosis	ICD-10-CM
C91.A1	Mature B-cell leukemia Burkitt-type, in remission	Diagnosis	ICD-10-CM
C91.A2	Mature B-cell leukemia Burkitt-type, in relapse	Diagnosis	ICD-10-CM
C91.Z	Other lymphoid leukemia	Diagnosis	ICD-10-CM
C91.Z0	Other lymphoid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.Z1	Other lymphoid leukemia, in remission	Diagnosis	ICD-10-CM
C91.Z2	Other lymphoid leukemia, in relapse	Diagnosis	ICD-10-CM
C92	Myeloid leukemia	Diagnosis	ICD-10-CM
C92.0	Acute myeloblastic leukemia	Diagnosis	ICD-10-CM
C92.00	Acute myeloblastic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.01	Acute myeloblastic leukemia, in remission	Diagnosis	ICD-10-CM
C92.02	Acute myeloblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.1	Chronic myeloid leukemia, BCR/ABL-positive	Diagnosis	ICD-10-CM
C92.10	Chronic myeloid leukemia, BCR/ABL-positive, not having achieved remission	Diagnosis	ICD-10-CM
C92.11	Chronic myeloid leukemia, BCR/ABL-positive, in remission	Diagnosis	ICD-10-CM
C92.12	Chronic myeloid leukemia, BCR/ABL-positive, in relapse	Diagnosis	ICD-10-CM
C92.2	Atypical chronic myeloid leukemia, BCR/ABL-negative	Diagnosis	ICD-10-CM
C92.20	Atypical chronic myeloid leukemia, BCR/ABL-negative, not having achieved remission	Diagnosis	ICD-10-CM
C92.21	Atypical chronic myeloid leukemia, BCR/ABL-negative, in remission	Diagnosis	ICD-10-CM
C92.22	Atypical chronic myeloid leukemia, BCR/ABL-negative, in relapse	Diagnosis	ICD-10-CM
C92.3	Myeloid sarcoma	Diagnosis	ICD-10-CM
C92.30	Myeloid sarcoma, not having achieved remission	Diagnosis	ICD-10-CM
C92.31	Myeloid sarcoma, in remission	Diagnosis	ICD-10-CM
C92.32	Myeloid sarcoma, in relapse	Diagnosis	ICD-10-CM
C92.4	Acute promyelocytic leukemia	Diagnosis	ICD-10-CM
C92.40	Acute promyelocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.41	Acute promyelocytic leukemia, in remission	Diagnosis	ICD-10-CM
C92.42	Acute promyelocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.5	Acute myelomonocytic leukemia	Diagnosis	ICD-10-CM
C92.50	Acute myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.51	Acute myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C92.52	Acute myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.6	Acute myeloid leukemia with 11q23-abnormality	Diagnosis	ICD-10-CM
C92.60	Acute myeloid leukemia with 11q23-abnormality not having achieved remission	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C92.61	Acute myeloid leukemia with 11q23-abnormality in remission	Diagnosis	ICD-10-CM
C92.62	Acute myeloid leukemia with 11q23-abnormality in relapse	Diagnosis	ICD-10-CM
C92.9	Myeloid leukemia, unspecified	Diagnosis	ICD-10-CM
C92.90	Myeloid leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C92.91	Myeloid leukemia, unspecified in remission	Diagnosis	ICD-10-CM
C92.92	Myeloid leukemia, unspecified in relapse	Diagnosis	ICD-10-CM
C92.A	Acute myeloid leukemia with multilineage dysplasia	Diagnosis	ICD-10-CM
C92.A0	Acute myeloid leukemia with multilineage dysplasia, not having achieved remission	Diagnosis	ICD-10-CM
C92.A1	Acute myeloid leukemia with multilineage dysplasia, in remission	Diagnosis	ICD-10-CM
C92.A2	Acute myeloid leukemia with multilineage dysplasia, in relapse	Diagnosis	ICD-10-CM
C92.Z	Other myeloid leukemia	Diagnosis	ICD-10-CM
C92.Z0	Other myeloid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C92.Z1	Other myeloid leukemia, in remission	Diagnosis	ICD-10-CM
C92.Z2	Other myeloid leukemia, in relapse	Diagnosis	ICD-10-CM
C93	Monocytic leukemia	Diagnosis	ICD-10-CM
C93.0	Acute monoblastic/monocytic leukemia	Diagnosis	ICD-10-CM
C93.00	Acute monoblastic/monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.01	Acute monoblastic/monocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.02	Acute monoblastic/monocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.1	Chronic myelomonocytic leukemia	Diagnosis	ICD-10-CM
C93.10	Chronic myelomonocytic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C93.11	Chronic myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.12	Chronic myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.3	Juvenile myelomonocytic leukemia	Diagnosis	ICD-10-CM
C93.30	Juvenile myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.31	Juvenile myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.32	Juvenile myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.9	Monocytic leukemia, unspecified	Diagnosis	ICD-10-CM
C93.90	Monocytic leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C93.91	Monocytic leukemia, unspecified in remission	Diagnosis	ICD-10-CM
C93.92	Monocytic leukemia, unspecified in relapse	Diagnosis	ICD-10-CM
C93.Z	Other monocytic leukemia	Diagnosis	ICD-10-CM
C93.Z0	Other monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.Z1	Other monocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.Z2	Other monocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C94	Other leukemias of specified cell type	Diagnosis	ICD-10-CM
C94.0	Acute erythroid leukemia	Diagnosis	ICD-10-CM
C94.00	Acute erythroid leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C94.01	Acute erythroid leukemia, in remission	Diagnosis	ICD-10-CM
C94.02	Acute erythroid leukemia, in relapse	Diagnosis	ICD-10-CM
C94.2	Acute megakaryoblastic leukemia	Diagnosis	ICD-10-CM
C94.20	Acute megakaryoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C94.21	Acute megakaryoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C94.22	Acute megakaryoblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C94.3	Mast cell leukemia	Diagnosis	ICD-10-CM
C94.30	Mast cell leukemia not having achieved remission	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
C94.31	Mast cell leukemia, in remission	Diagnosis	ICD-10-CM
C94.32	Mast cell leukemia, in relapse	Diagnosis	ICD-10-CM
C94.4	Acute panmyelosis with myelofibrosis	Diagnosis	ICD-10-CM
C94.40	Acute panmyelosis with myelofibrosis not having achieved remission	Diagnosis	ICD-10-CM
C94.41	Acute panmyelosis with myelofibrosis, in remission	Diagnosis	ICD-10-CM
C94.42	Acute panmyelosis with myelofibrosis, in relapse	Diagnosis	ICD-10-CM
C94.6	Myelodysplastic disease, not elsewhere classified	Diagnosis	ICD-10-CM
C94.8	Other specified leukemias	Diagnosis	ICD-10-CM
C94.80	Other specified leukemias not having achieved remission	Diagnosis	ICD-10-CM
C94.81	Other specified leukemias, in remission	Diagnosis	ICD-10-CM
C94.82	Other specified leukemias, in relapse	Diagnosis	ICD-10-CM
C95	Leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C95.0	Acute leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C95.00	Acute leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C95.01	Acute leukemia of unspecified cell type, in remission	Diagnosis	ICD-10-CM
C95.02	Acute leukemia of unspecified cell type, in relapse	Diagnosis	ICD-10-CM
C95.1	Chronic leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C95.10	Chronic leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C95.11	Chronic leukemia of unspecified cell type, in remission	Diagnosis	ICD-10-CM
C95.12	Chronic leukemia of unspecified cell type, in relapse	Diagnosis	ICD-10-CM
C95.9	Leukemia, unspecified	Diagnosis	ICD-10-CM
C95.90	Leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C95.91	Leukemia, unspecified, in remission	Diagnosis	ICD-10-CM
C95.92	Leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C96	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
C96.0	Multifocal and multisystemic (disseminated) Langerhans-cell histiocytosis	Diagnosis	ICD-10-CM
C96.2	Malignant mast cell neoplasm	Diagnosis	ICD-10-CM
C96.20	Malignant mast cell neoplasm, unspecified	Diagnosis	ICD-10-CM
C96.21	Aggressive systemic mastocytosis	Diagnosis	ICD-10-CM
C96.22	Mast cell sarcoma	Diagnosis	ICD-10-CM
C96.29	Other malignant mast cell neoplasm	Diagnosis	ICD-10-CM
C96.4	Sarcoma of dendritic cells (accessory cells)	Diagnosis	ICD-10-CM
C96.5	Multifocal and unisystemic Langerhans-cell histiocytosis	Diagnosis	ICD-10-CM
C96.6	Unifocal Langerhans-cell histiocytosis	Diagnosis	ICD-10-CM
C96.9	Malignant neoplasm of lymphoid, hematopoietic and related tissue, unspecified	Diagnosis	ICD-10-CM
C96.A	Histiocytic sarcoma	Diagnosis	ICD-10-CM
C96.Z	Other specified malignant neoplasms of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
D00	Carcinoma in situ of oral cavity, esophagus and stomach	Diagnosis	ICD-10-CM
D00.0	Carcinoma in situ of lip, oral cavity and pharynx	Diagnosis	ICD-10-CM
D00.00	Carcinoma in situ of oral cavity, unspecified site	Diagnosis	ICD-10-CM
D00.01	Carcinoma in situ of labial mucosa and vermilion border	Diagnosis	ICD-10-CM
D00.02	Carcinoma in situ of buccal mucosa	Diagnosis	ICD-10-CM
D00.03	Carcinoma in situ of gingiva and edentulous alveolar ridge	Diagnosis	ICD-10-CM
D00.04	Carcinoma in situ of soft palate	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
D00.05	Carcinoma in situ of hard palate	Diagnosis	ICD-10-CM
D00.06	Carcinoma in situ of floor of mouth	Diagnosis	ICD-10-CM
D00.07	Carcinoma in situ of tongue	Diagnosis	ICD-10-CM
D00.08	Carcinoma in situ of pharynx	Diagnosis	ICD-10-CM
D00.1	Carcinoma in situ of esophagus	Diagnosis	ICD-10-CM
D00.2	Carcinoma in situ of stomach	Diagnosis	ICD-10-CM
D01	Carcinoma in situ of other and unspecified digestive organs	Diagnosis	ICD-10-CM
D01.0	Carcinoma in situ of colon	Diagnosis	ICD-10-CM
D01.1	Carcinoma in situ of rectosigmoid junction	Diagnosis	ICD-10-CM
D01.2	Carcinoma in situ of rectum	Diagnosis	ICD-10-CM
D01.3	Carcinoma in situ of anus and anal canal	Diagnosis	ICD-10-CM
D01.4	Carcinoma in situ of other and unspecified parts of intestine	Diagnosis	ICD-10-CM
D01.40	Carcinoma in situ of unspecified part of intestine	Diagnosis	ICD-10-CM
D01.49	Carcinoma in situ of other parts of intestine	Diagnosis	ICD-10-CM
D01.5	Carcinoma in situ of liver, gallbladder and bile ducts	Diagnosis	ICD-10-CM
D01.7	Carcinoma in situ of other specified digestive organs	Diagnosis	ICD-10-CM
D01.9	Carcinoma in situ of digestive organ, unspecified	Diagnosis	ICD-10-CM
D02	Carcinoma in situ of middle ear and respiratory system	Diagnosis	ICD-10-CM
D02.0	Carcinoma in situ of larynx	Diagnosis	ICD-10-CM
D02.1	Carcinoma in situ of trachea	Diagnosis	ICD-10-CM
D02.2	Carcinoma in situ of bronchus and lung	Diagnosis	ICD-10-CM
D02.20	Carcinoma in situ of unspecified bronchus and lung	Diagnosis	ICD-10-CM
D02.21	Carcinoma in situ of right bronchus and lung	Diagnosis	ICD-10-CM
D02.22	Carcinoma in situ of left bronchus and lung	Diagnosis	ICD-10-CM
D02.3	Carcinoma in situ of other parts of respiratory system	Diagnosis	ICD-10-CM
D02.4	Carcinoma in situ of respiratory system, unspecified	Diagnosis	ICD-10-CM
D03	Melanoma in situ	Diagnosis	ICD-10-CM
D03.0	Melanoma in situ of lip	Diagnosis	ICD-10-CM
D03.1	Melanoma in situ of eyelid, including canthus	Diagnosis	ICD-10-CM
D03.10	Melanoma in situ of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
D03.11	Melanoma in situ of right eyelid, including canthus	Diagnosis	ICD-10-CM
D03.111	Melanoma in situ of right upper eyelid, including canthus	Diagnosis	ICD-10-CM
D03.112	Melanoma in situ of right lower eyelid, including canthus	Diagnosis	ICD-10-CM
D03.12	Melanoma in situ of left eyelid, including canthus	Diagnosis	ICD-10-CM
D03.121	Melanoma in situ of left upper eyelid, including canthus	Diagnosis	ICD-10-CM
D03.122	Melanoma in situ of left lower eyelid, including canthus	Diagnosis	ICD-10-CM
D03.2	Melanoma in situ of ear and external auricular canal	Diagnosis	ICD-10-CM
D03.20	Melanoma in situ of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
D03.21	Melanoma in situ of right ear and external auricular canal	Diagnosis	ICD-10-CM
D03.22	Melanoma in situ of left ear and external auricular canal	Diagnosis	ICD-10-CM
D03.3	Melanoma in situ of other and unspecified parts of face	Diagnosis	ICD-10-CM
D03.30	Melanoma in situ of unspecified part of face	Diagnosis	ICD-10-CM
D03.39	Melanoma in situ of other parts of face	Diagnosis	ICD-10-CM
D03.4	Melanoma in situ of scalp and neck	Diagnosis	ICD-10-CM
D03.5	Melanoma in situ of trunk	Diagnosis	ICD-10-CM
D03.51	Melanoma in situ of anal skin	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
D03.52	Melanoma in situ of breast (skin) (soft tissue)	Diagnosis	ICD-10-CM
D03.59	Melanoma in situ of other part of trunk	Diagnosis	ICD-10-CM
D03.6	Melanoma in situ of upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.60	Melanoma in situ of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.61	Melanoma in situ of right upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.62	Melanoma in situ of left upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.7	Melanoma in situ of lower limb, including hip	Diagnosis	ICD-10-CM
D03.70	Melanoma in situ of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
D03.71	Melanoma in situ of right lower limb, including hip	Diagnosis	ICD-10-CM
D03.72	Melanoma in situ of left lower limb, including hip	Diagnosis	ICD-10-CM
D03.8	Melanoma in situ of other sites	Diagnosis	ICD-10-CM
D03.9	Melanoma in situ, unspecified	Diagnosis	ICD-10-CM
D05	Carcinoma in situ of breast	Diagnosis	ICD-10-CM
D05.0	Lobular carcinoma in situ of breast	Diagnosis	ICD-10-CM
D05.00	Lobular carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.01	Lobular carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.02	Lobular carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.1	Intraductal carcinoma in situ of breast	Diagnosis	ICD-10-CM
D05.10	Intraductal carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.11	Intraductal carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.12	Intraductal carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.8	Other specified type of carcinoma in situ of breast	Diagnosis	ICD-10-CM
D05.80	Other specified type of carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.81	Other specified type of carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.82	Other specified type of carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.9	Unspecified type of carcinoma in situ of breast	Diagnosis	ICD-10-CM
D05.90	Unspecified type of carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.91	Unspecified type of carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.92	Unspecified type of carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D06	Carcinoma in situ of cervix uteri	Diagnosis	ICD-10-CM
D06.0	Carcinoma in situ of endocervix	Diagnosis	ICD-10-CM
D06.1	Carcinoma in situ of exocervix	Diagnosis	ICD-10-CM
D06.7	Carcinoma in situ of other parts of cervix	Diagnosis	ICD-10-CM
D06.9	Carcinoma in situ of cervix, unspecified	Diagnosis	ICD-10-CM
D07	Carcinoma in situ of other and unspecified genital organs	Diagnosis	ICD-10-CM
D07.0	Carcinoma in situ of endometrium	Diagnosis	ICD-10-CM
D07.1	Carcinoma in situ of vulva	Diagnosis	ICD-10-CM
D07.2	Carcinoma in situ of vagina	Diagnosis	ICD-10-CM
D07.3	Carcinoma in situ of other and unspecified female genital organs	Diagnosis	ICD-10-CM
D07.30	Carcinoma in situ of unspecified female genital organs	Diagnosis	ICD-10-CM
D07.39	Carcinoma in situ of other female genital organs	Diagnosis	ICD-10-CM
D07.4	Carcinoma in situ of penis	Diagnosis	ICD-10-CM
D07.5	Carcinoma in situ of prostate	Diagnosis	ICD-10-CM
D07.6	Carcinoma in situ of other and unspecified male genital organs	Diagnosis	ICD-10-CM
D07.60	Carcinoma in situ of unspecified male genital organs	Diagnosis	ICD-10-CM
D07.61	Carcinoma in situ of scrotum	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
D07.69	Carcinoma in situ of other male genital organs	Diagnosis	ICD-10-CM
D09	Carcinoma in situ of other and unspecified sites	Diagnosis	ICD-10-CM
D09.0	Carcinoma in situ of bladder	Diagnosis	ICD-10-CM
D09.1	Carcinoma in situ of other and unspecified urinary organs	Diagnosis	ICD-10-CM
D09.10	Carcinoma in situ of unspecified urinary organ	Diagnosis	ICD-10-CM
D09.19	Carcinoma in situ of other urinary organs	Diagnosis	ICD-10-CM
D09.2	Carcinoma in situ of eye	Diagnosis	ICD-10-CM
D09.20	Carcinoma in situ of unspecified eye	Diagnosis	ICD-10-CM
D09.21	Carcinoma in situ of right eye	Diagnosis	ICD-10-CM
D09.22	Carcinoma in situ of left eye	Diagnosis	ICD-10-CM
D09.3	Carcinoma in situ of thyroid and other endocrine glands	Diagnosis	ICD-10-CM
D09.8	Carcinoma in situ of other specified sites	Diagnosis	ICD-10-CM
D09.9	Carcinoma in situ, unspecified	Diagnosis	ICD-10-CM
D37	Neoplasm of uncertain behavior of oral cavity and digestive organs	Diagnosis	ICD-10-CM
D37.0	Neoplasm of uncertain behavior of lip, oral cavity and pharynx	Diagnosis	ICD-10-CM
D37.01	Neoplasm of uncertain behavior of lip	Diagnosis	ICD-10-CM
D37.02	Neoplasm of uncertain behavior of tongue	Diagnosis	ICD-10-CM
D37.03	Neoplasm of uncertain behavior of the major salivary glands	Diagnosis	ICD-10-CM
D37.030	Neoplasm of uncertain behavior of the parotid salivary glands	Diagnosis	ICD-10-CM
D37.031	Neoplasm of uncertain behavior of the sublingual salivary glands	Diagnosis	ICD-10-CM
D37.032	Neoplasm of uncertain behavior of the submandibular salivary glands	Diagnosis	ICD-10-CM
D37.039	Neoplasm of uncertain behavior of the major salivary glands, unspecified	Diagnosis	ICD-10-CM
D37.04	Neoplasm of uncertain behavior of the minor salivary glands	Diagnosis	ICD-10-CM
D37.05	Neoplasm of uncertain behavior of pharynx	Diagnosis	ICD-10-CM
D37.09	Neoplasm of uncertain behavior of other specified sites of the oral cavity	Diagnosis	ICD-10-CM
D37.1	Neoplasm of uncertain behavior of stomach	Diagnosis	ICD-10-CM
D37.2	Neoplasm of uncertain behavior of small intestine	Diagnosis	ICD-10-CM
D37.3	Neoplasm of uncertain behavior of appendix	Diagnosis	ICD-10-CM
D37.4	Neoplasm of uncertain behavior of colon	Diagnosis	ICD-10-CM
D37.5	Neoplasm of uncertain behavior of rectum	Diagnosis	ICD-10-CM
D37.6	Neoplasm of uncertain behavior of liver, gallbladder and bile ducts	Diagnosis	ICD-10-CM
D37.8	Neoplasm of uncertain behavior of other specified digestive organs	Diagnosis	ICD-10-CM
D37.9	Neoplasm of uncertain behavior of digestive organ, unspecified	Diagnosis	ICD-10-CM
D38	Neoplasm of uncertain behavior of middle ear and respiratory and intrathoracic organs	Diagnosis	ICD-10-CM
D38.0	Neoplasm of uncertain behavior of larynx	Diagnosis	ICD-10-CM
D38.1	Neoplasm of uncertain behavior of trachea, bronchus and lung	Diagnosis	ICD-10-CM
D38.2	Neoplasm of uncertain behavior of pleura	Diagnosis	ICD-10-CM
D38.3	Neoplasm of uncertain behavior of mediastinum	Diagnosis	ICD-10-CM
D38.4	Neoplasm of uncertain behavior of thymus	Diagnosis	ICD-10-CM
D38.5	Neoplasm of uncertain behavior of other respiratory organs	Diagnosis	ICD-10-CM
D38.6	Neoplasm of uncertain behavior of respiratory organ, unspecified	Diagnosis	ICD-10-CM
D39	Neoplasm of uncertain behavior of female genital organs	Diagnosis	ICD-10-CM
D39.0	Neoplasm of uncertain behavior of uterus	Diagnosis	ICD-10-CM
D39.1	Neoplasm of uncertain behavior of ovary	Diagnosis	ICD-10-CM
D39.10	Neoplasm of uncertain behavior of unspecified ovary	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
D39.11	Neoplasm of uncertain behavior of right ovary	Diagnosis	ICD-10-CM
D39.12	Neoplasm of uncertain behavior of left ovary	Diagnosis	ICD-10-CM
D39.2	Neoplasm of uncertain behavior of placenta	Diagnosis	ICD-10-CM
D39.8	Neoplasm of uncertain behavior of other specified female genital organs	Diagnosis	ICD-10-CM
D39.9	Neoplasm of uncertain behavior of female genital organ, unspecified	Diagnosis	ICD-10-CM
D3A	Benign neuroendocrine tumors	Diagnosis	ICD-10-CM
D3A.0	Benign carcinoid tumors	Diagnosis	ICD-10-CM
D3A.00	Benign carcinoid tumor of unspecified site	Diagnosis	ICD-10-CM
D3A.01	Benign carcinoid tumors of the small intestine	Diagnosis	ICD-10-CM
D3A.010	Benign carcinoid tumor of the duodenum	Diagnosis	ICD-10-CM
D3A.011	Benign carcinoid tumor of the jejunum	Diagnosis	ICD-10-CM
D3A.012	Benign carcinoid tumor of the ileum	Diagnosis	ICD-10-CM
D3A.019	Benign carcinoid tumor of the small intestine, unspecified portion	Diagnosis	ICD-10-CM
D3A.02	Benign carcinoid tumors of the appendix, large intestine, and rectum	Diagnosis	ICD-10-CM
D3A.020	Benign carcinoid tumor of the appendix	Diagnosis	ICD-10-CM
D3A.021	Benign carcinoid tumor of the cecum	Diagnosis	ICD-10-CM
D3A.022	Benign carcinoid tumor of the ascending colon	Diagnosis	ICD-10-CM
D3A.023	Benign carcinoid tumor of the transverse colon	Diagnosis	ICD-10-CM
D3A.024	Benign carcinoid tumor of the descending colon	Diagnosis	ICD-10-CM
D3A.025	Benign carcinoid tumor of the sigmoid colon	Diagnosis	ICD-10-CM
D3A.026	Benign carcinoid tumor of the rectum	Diagnosis	ICD-10-CM
D3A.029	Benign carcinoid tumor of the large intestine, unspecified portion	Diagnosis	ICD-10-CM
D3A.09	Benign carcinoid tumors of other sites	Diagnosis	ICD-10-CM
D3A.090	Benign carcinoid tumor of the bronchus and lung	Diagnosis	ICD-10-CM
D3A.091	Benign carcinoid tumor of the thymus	Diagnosis	ICD-10-CM
D3A.092	Benign carcinoid tumor of the stomach	Diagnosis	ICD-10-CM
D3A.093	Benign carcinoid tumor of the kidney	Diagnosis	ICD-10-CM
D3A.094	Benign carcinoid tumor of the foregut, unspecified	Diagnosis	ICD-10-CM
D3A.095	Benign carcinoid tumor of the midgut, unspecified	Diagnosis	ICD-10-CM
D3A.096	Benign carcinoid tumor of the hindgut, unspecified	Diagnosis	ICD-10-CM
D3A.098	Benign carcinoid tumors of other sites	Diagnosis	ICD-10-CM
D3A.8	Other benign neuroendocrine tumors	Diagnosis	ICD-10-CM
D40	Neoplasm of uncertain behavior of male genital organs	Diagnosis	ICD-10-CM
D40.0	Neoplasm of uncertain behavior of prostate	Diagnosis	ICD-10-CM
D40.1	Neoplasm of uncertain behavior of testis	Diagnosis	ICD-10-CM
D40.10	Neoplasm of uncertain behavior of unspecified testis	Diagnosis	ICD-10-CM
D40.11	Neoplasm of uncertain behavior of right testis	Diagnosis	ICD-10-CM
D40.12	Neoplasm of uncertain behavior of left testis	Diagnosis	ICD-10-CM
D40.8	Neoplasm of uncertain behavior of other specified male genital organs	Diagnosis	ICD-10-CM
D40.9	Neoplasm of uncertain behavior of male genital organ, unspecified	Diagnosis	ICD-10-CM
D41	Neoplasm of uncertain behavior of urinary organs	Diagnosis	ICD-10-CM
D41.0	Neoplasm of uncertain behavior of kidney	Diagnosis	ICD-10-CM
D41.00	Neoplasm of uncertain behavior of unspecified kidney	Diagnosis	ICD-10-CM
D41.01	Neoplasm of uncertain behavior of right kidney	Diagnosis	ICD-10-CM
D41.02	Neoplasm of uncertain behavior of left kidney	Diagnosis	ICD-10-CM
D41.1	Neoplasm of uncertain behavior of renal pelvis	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
D41.10	Neoplasm of uncertain behavior of unspecified renal pelvis	Diagnosis	ICD-10-CM
D41.11	Neoplasm of uncertain behavior of right renal pelvis	Diagnosis	ICD-10-CM
D41.12	Neoplasm of uncertain behavior of left renal pelvis	Diagnosis	ICD-10-CM
D41.2	Neoplasm of uncertain behavior of ureter	Diagnosis	ICD-10-CM
D41.20	Neoplasm of uncertain behavior of unspecified ureter	Diagnosis	ICD-10-CM
D41.21	Neoplasm of uncertain behavior of right ureter	Diagnosis	ICD-10-CM
D41.22	Neoplasm of uncertain behavior of left ureter	Diagnosis	ICD-10-CM
D41.3	Neoplasm of uncertain behavior of urethra	Diagnosis	ICD-10-CM
D41.4	Neoplasm of uncertain behavior of bladder	Diagnosis	ICD-10-CM
D41.8	Neoplasm of uncertain behavior of other specified urinary organs	Diagnosis	ICD-10-CM
D41.9	Neoplasm of uncertain behavior of unspecified urinary organ	Diagnosis	ICD-10-CM
D42	Neoplasm of uncertain behavior of meninges	Diagnosis	ICD-10-CM
D42.0	Neoplasm of uncertain behavior of cerebral meninges	Diagnosis	ICD-10-CM
D42.1	Neoplasm of uncertain behavior of spinal meninges	Diagnosis	ICD-10-CM
D42.9	Neoplasm of uncertain behavior of meninges, unspecified	Diagnosis	ICD-10-CM
D43	Neoplasm of uncertain behavior of brain and central nervous system	Diagnosis	ICD-10-CM
D43.0	Neoplasm of uncertain behavior of brain, supratentorial	Diagnosis	ICD-10-CM
D43.1	Neoplasm of uncertain behavior of brain, infratentorial	Diagnosis	ICD-10-CM
D43.2	Neoplasm of uncertain behavior of brain, unspecified	Diagnosis	ICD-10-CM
D43.3	Neoplasm of uncertain behavior of cranial nerves	Diagnosis	ICD-10-CM
D43.4	Neoplasm of uncertain behavior of spinal cord	Diagnosis	ICD-10-CM
D43.8	Neoplasm of uncertain behavior of other specified parts of central nervous system	Diagnosis	ICD-10-CM
D43.9	Neoplasm of uncertain behavior of central nervous system, unspecified	Diagnosis	ICD-10-CM
D44	Neoplasm of uncertain behavior of endocrine glands	Diagnosis	ICD-10-CM
D44.0	Neoplasm of uncertain behavior of thyroid gland	Diagnosis	ICD-10-CM
D44.1	Neoplasm of uncertain behavior of adrenal gland	Diagnosis	ICD-10-CM
D44.10	Neoplasm of uncertain behavior of unspecified adrenal gland	Diagnosis	ICD-10-CM
D44.11	Neoplasm of uncertain behavior of right adrenal gland	Diagnosis	ICD-10-CM
D44.12	Neoplasm of uncertain behavior of left adrenal gland	Diagnosis	ICD-10-CM
D44.2	Neoplasm of uncertain behavior of parathyroid gland	Diagnosis	ICD-10-CM
D44.3	Neoplasm of uncertain behavior of pituitary gland	Diagnosis	ICD-10-CM
D44.4	Neoplasm of uncertain behavior of craniopharyngeal duct	Diagnosis	ICD-10-CM
D44.5	Neoplasm of uncertain behavior of pineal gland	Diagnosis	ICD-10-CM
D44.6	Neoplasm of uncertain behavior of carotid body	Diagnosis	ICD-10-CM
D44.7	Neoplasm of uncertain behavior of aortic body and other paraganglia	Diagnosis	ICD-10-CM
D44.9	Neoplasm of uncertain behavior of unspecified endocrine gland	Diagnosis	ICD-10-CM
D45	Polycythemia vera	Diagnosis	ICD-10-CM
D46	Myelodysplastic syndromes	Diagnosis	ICD-10-CM
D46.0	Refractory anemia without ring sideroblasts, so stated	Diagnosis	ICD-10-CM
D46.1	Refractory anemia with ring sideroblasts	Diagnosis	ICD-10-CM
D46.2	Refractory anemia with excess of blasts [RAEB]	Diagnosis	ICD-10-CM
D46.20	Refractory anemia with excess of blasts, unspecified	Diagnosis	ICD-10-CM
D46.21	Refractory anemia with excess of blasts 1	Diagnosis	ICD-10-CM
D46.22	Refractory anemia with excess of blasts 2	Diagnosis	ICD-10-CM
D46.4	Refractory anemia, unspecified	Diagnosis	ICD-10-CM
D46.9	Myelodysplastic syndrome, unspecified	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
D46.A	Refractory cytopenia with multilineage dysplasia	Diagnosis	ICD-10-CM
D46.B	Refractory cytopenia with multilineage dysplasia and ring sideroblasts	Diagnosis	ICD-10-CM
D46.C	Myelodysplastic syndrome with isolated del(5q) chromosomal abnormality	Diagnosis	ICD-10-CM
D46.Z	Other myelodysplastic syndromes	Diagnosis	ICD-10-CM
D47	Other neoplasms of uncertain behavior of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
D47.0	Mast cell neoplasms of uncertain behavior	Diagnosis	ICD-10-CM
D47.01	Cutaneous mastocytosis	Diagnosis	ICD-10-CM
D47.02	Systemic mastocytosis	Diagnosis	ICD-10-CM
D47.09	Other mast cell neoplasms of uncertain behavior	Diagnosis	ICD-10-CM
D47.1	Chronic myeloproliferative disease	Diagnosis	ICD-10-CM
D47.2	Monoclonal gammopathy	Diagnosis	ICD-10-CM
D47.3	Essential (hemorrhagic) thrombocythemia	Diagnosis	ICD-10-CM
D47.4	Osteomyelofibrosis	Diagnosis	ICD-10-CM
D47.9	Neoplasm of uncertain behavior of lymphoid, hematopoietic and related tissue, unspecified	Diagnosis	ICD-10-CM
D47.Z	Other specified neoplasms of uncertain behavior of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
D47.Z1	Post-transplant lymphoproliferative disorder (PTLD)	Diagnosis	ICD-10-CM
D47.Z2	Castleman disease	Diagnosis	ICD-10-CM
D47.Z9	Other specified neoplasms of uncertain behavior of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
D48	Neoplasm of uncertain behavior of other and unspecified sites	Diagnosis	ICD-10-CM
D48.0	Neoplasm of uncertain behavior of bone and articular cartilage	Diagnosis	ICD-10-CM
D48.1	Neoplasm of uncertain behavior of connective and other soft tissue	Diagnosis	ICD-10-CM
D48.11	Desmoid tumor	Diagnosis	ICD-10-CM
D48.110	Desmoid tumor of head and neck	Diagnosis	ICD-10-CM
D48.111	Desmoid tumor of chest wall	Diagnosis	ICD-10-CM
D48.112	Desmoid tumor, intrathoracic	Diagnosis	ICD-10-CM
D48.113	Desmoid tumor of abdominal wall	Diagnosis	ICD-10-CM
D48.114	Desmoid tumor, intraabdominal	Diagnosis	ICD-10-CM
D48.115	Desmoid tumor of upper extremity and shoulder girdle	Diagnosis	ICD-10-CM
D48.116	Desmoid tumor of lower extremity and pelvic girdle	Diagnosis	ICD-10-CM
D48.117	Desmoid tumor of back	Diagnosis	ICD-10-CM
D48.118	Desmoid tumor of other site	Diagnosis	ICD-10-CM
D48.119	Desmoid tumor of unspecified site	Diagnosis	ICD-10-CM
D48.19	Other specified neoplasm of uncertain behavior of connective and other soft tissue	Diagnosis	ICD-10-CM
D48.2	Neoplasm of uncertain behavior of peripheral nerves and autonomic nervous system	Diagnosis	ICD-10-CM
D48.3	Neoplasm of uncertain behavior of retroperitoneum	Diagnosis	ICD-10-CM
D48.4	Neoplasm of uncertain behavior of peritoneum	Diagnosis	ICD-10-CM
D48.5	Neoplasm of uncertain behavior of skin	Diagnosis	ICD-10-CM
D48.6	Neoplasm of uncertain behavior of breast	Diagnosis	ICD-10-CM
D48.60	Neoplasm of uncertain behavior of unspecified breast	Diagnosis	ICD-10-CM
D48.61	Neoplasm of uncertain behavior of right breast	Diagnosis	ICD-10-CM
D48.62	Neoplasm of uncertain behavior of left breast	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
D48.7	Neoplasm of uncertain behavior of other specified sites	Diagnosis	ICD-10-CM
D48.9	Neoplasm of uncertain behavior, unspecified	Diagnosis	ICD-10-CM
D49	Neoplasms of unspecified behavior	Diagnosis	ICD-10-CM
D49.0	Neoplasm of unspecified behavior of digestive system	Diagnosis	ICD-10-CM
D49.1	Neoplasm of unspecified behavior of respiratory system	Diagnosis	ICD-10-CM
D49.2	Neoplasm of unspecified behavior of bone, soft tissue, and skin	Diagnosis	ICD-10-CM
D49.3	Neoplasm of unspecified behavior of breast	Diagnosis	ICD-10-CM
D49.4	Neoplasm of unspecified behavior of bladder	Diagnosis	ICD-10-CM
D49.5	Neoplasm of unspecified behavior of other genitourinary organs	Diagnosis	ICD-10-CM
D49.51	Neoplasm of unspecified behavior of kidney	Diagnosis	ICD-10-CM
D49.511	Neoplasm of unspecified behavior of right kidney	Diagnosis	ICD-10-CM
D49.512	Neoplasm of unspecified behavior of left kidney	Diagnosis	ICD-10-CM
D49.519	Neoplasm of unspecified behavior of unspecified kidney	Diagnosis	ICD-10-CM
D49.59	Neoplasm of unspecified behavior of other genitourinary organ	Diagnosis	ICD-10-CM
D49.6	Neoplasm of unspecified behavior of brain	Diagnosis	ICD-10-CM
D49.7	Neoplasm of unspecified behavior of endocrine glands and other parts of nervous system	Diagnosis	ICD-10-CM
D49.8	Neoplasm of unspecified behavior of other specified sites	Diagnosis	ICD-10-CM
D49.81	Neoplasm of unspecified behavior of retina and choroid	Diagnosis	ICD-10-CM
D49.89	Neoplasm of unspecified behavior of other specified sites	Diagnosis	ICD-10-CM
D49.9	Neoplasm of unspecified behavior of unspecified site	Diagnosis	ICD-10-CM
D75.81	Myelofibrosis	Diagnosis	ICD-10-CM
	Serious Gastrointestinal Disease		
K31.89	Other diseases of stomach and duodenum	Diagnosis	ICD-10-CM
K56	Paralytic ileus and intestinal obstruction without hernia	Diagnosis	ICD-10-CM
K56.0	Paralytic ileus	Diagnosis	ICD-10-CM
K56.1	Intussusception	Diagnosis	ICD-10-CM
K56.2	Volvulus	Diagnosis	ICD-10-CM
K56.3	Gallstone ileus	Diagnosis	ICD-10-CM
K56.4	Other impaction of intestine	Diagnosis	ICD-10-CM
K56.41	Fecal impaction	Diagnosis	ICD-10-CM
K56.49	Other impaction of intestine	Diagnosis	ICD-10-CM
K56.5	Intestinal adhesions [bands] with obstruction (postinfection)	Diagnosis	ICD-10-CM
K56.50	Intestinal adhesions [bands], unspecified as to partial versus complete obstruction	Diagnosis	ICD-10-CM
K56.51	Intestinal adhesions [bands], with partial obstruction	Diagnosis	ICD-10-CM
K56.52	Intestinal adhesions [bands] with complete obstruction	Diagnosis	ICD-10-CM
K56.6	Other and unspecified intestinal obstruction	Diagnosis	ICD-10-CM
K56.60	Unspecified intestinal obstruction	Diagnosis	ICD-10-CM
K56.600	Partial intestinal obstruction, unspecified as to cause	Diagnosis	ICD-10-CM
K56.601	Complete intestinal obstruction, unspecified as to cause	Diagnosis	ICD-10-CM
K56.609	Unspecified intestinal obstruction, unspecified as to partial versus complete obstruction	Diagnosis	ICD-10-CM
K56.69	Other intestinal obstruction	Diagnosis	ICD-10-CM
K56.690	Other partial intestinal obstruction	Diagnosis	ICD-10-CM
K56.691	Other complete intestinal obstruction	Diagnosis	ICD-10-CM
K56.699	Other intestinal obstruction unspecified as to partial versus complete obstruction	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
K56.7	Ileus, unspecified	Diagnosis	ICD-10-CM
K59.0	Constipation	Diagnosis	ICD-10-CM
K59.00	Constipation, unspecified	Diagnosis	ICD-10-CM
K59.01	Slow transit constipation	Diagnosis	ICD-10-CM
K59.02	Outlet dysfunction constipation	Diagnosis	ICD-10-CM
K59.03	Drug induced constipation	Diagnosis	ICD-10-CM
K59.04	Chronic idiopathic constipation	Diagnosis	ICD-10-CM
K59.09	Other constipation	Diagnosis	ICD-10-CM
	Migraine Diagnosis		
G43.D1	Abdominal migraine, intractable	Diagnosis	ICD-10-CM
G43.D0	Abdominal migraine, not intractable	Diagnosis	ICD-10-CM
G43.711	Chronic migraine without aura, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.719	Chronic migraine without aura, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.701	Chronic migraine without aura, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.709	Chronic migraine without aura, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.A1	Cyclical vomiting, in migraine, intractable	Diagnosis	ICD-10-CM
G43.A0	Cyclical vomiting, in migraine, not intractable	Diagnosis	ICD-10-CM
G43.411	Hemiplegic migraine, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.419	Hemiplegic migraine, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.401	Hemiplegic migraine, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.409	Hemiplegic migraine, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.831	Menstrual migraine, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.839	Menstrual migraine, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.821	Menstrual migraine, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.829	Menstrual migraine, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.111	Migraine with aura, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.119	Migraine with aura, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.101	Migraine with aura, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.109	Migraine with aura, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.011	Migraine without aura, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.019	Migraine without aura, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.001	Migraine without aura, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.009	Migraine without aura, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.911	Migraine, unspecified, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.919	Migraine, unspecified, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.901	Migraine, unspecified, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.909	Migraine, unspecified, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.B1	Ophthalmoplegic migraine, intractable	Diagnosis	ICD-10-CM
G43.B0	Ophthalmoplegic migraine, not intractable	Diagnosis	ICD-10-CM
G43.811	Other migraine, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.819	Other migraine, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.801	Other migraine, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.809	Other migraine, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.611	Persistent migraine aura with cerebral infarction, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.619	Persistent migraine aura with cerebral infarction, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.601	Persistent migraine aura with cerebral infarction, not intractable, with status migrainosus	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Category	Code Type
G43.609	Persistent migraine aura with cerebral infarction, not intractable, without status migraino	Diagnosis	ICD-10-CM
G43.511	Persistent migraine aura without cerebral infarction, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.519	Persistent migraine aura without cerebral infarction, intractable, without status migrainos	Diagnosis	ICD-10-CM
G43.501	Persistent migraine aura without cerebral infarction, not intractable, with status migraino	Diagnosis	ICD-10-CM
G43.509	Persistent migraine aura without cerebral infarction, not intractable, without status migra	Diagnosis	ICD-10-CM

Appendix F. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Inclusion Criteria in this Request

Non-Proprietary Name	Proprietary Name
Small Molecule CGRP Antagonists	
atogepant	Qulipta
rimegepant sulfate	Nurtec ODT
ubrogepant	Ubrelvy
zavegepant HCl	Zavzpret
mAb CGRPs	
eptinezumab-jjmr	Vyepti
erenumab-aooe	Aimovig Autoinjector
erenumab-aooe	Aimovig Autoinjector (2 Pack)
fremanezumab-vfrm	Ajovy Autoinjector
fremanezumab-vfrm	Ajovy Syringe
galcanezumab-gnlm	Emgality Pen
galcanezumab-gnlm	Emgality Syringe
Onabotulinum Toxin	
onabotulinumtoxinA	Botox
onabotulinumtoxinA	Botox Cosmetic
Triptans	
almotriptan malate	Axert
almotriptan malate	almotriptan malate
eletriptan hydrobromide	Relpax
eletriptan hydrobromide	eletriptan
frovatriptan succinate	Frova
frovatriptan succinate	frovatriptan
naratriptan HCl	Amerge
naratriptan HCl	naratriptan
rizatriptan benzoate	Maxalt
rizatriptan benzoate	Maxalt-MLT
rizatriptan benzoate	rizatriptan
rizatriptan benzoate/meloxicam	Symbravo
sumatriptan	Imitrex
sumatriptan	Tosymra
sumatriptan	sumatriptan
sumatriptan succinate	Imitrex
sumatriptan succinate	Imitrex STATdose Pen
sumatriptan succinate	Imitrex STATdose Refill
sumatriptan succinate	Onzetra Xsail
sumatriptan succinate	Sumavel DosePro
sumatriptan succinate	Zembrace Symtouch
sumatriptan succinate	sumatriptan succinate
sumatriptan succinate/menthol/camphor	Migranow
sumatriptan succinate/naproxen sodium	Treximet
sumatriptan succinate/naproxen sodium	sumatriptan-naproxen
zolmitriptan	Zomig
zolmitriptan	Zomig ZMT
zolmitriptan	zolmitriptan

Appendix F. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Inclusion Criteria in this Request

Non-Proprietary Name	Proprietary Name
Dihydroergotamine (DHE)	
dihydroergotamine mesylate	D.H.E.45
dihydroergotamine mesylate	Migranal
dihydroergotamine mesylate	Trudhesa
dihydroergotamine mesylate	dihydroergotamine

Appendix G. List of Provider Specialty Codes Used to Define Exposures in this Request

Specialty Code Type	Specialty	Description
2	13	Physician/Neurology
2	14	Physician/Neurosurgery
2	86	Physician/Neuropsychiatry
0	103G00000X	Behavioral Health & Social Service Providers, Clinical Neuropsychologist
0	103GC0700X	Behavioral Health & Social Service Providers, Clinical Neuropsychologist, Clinical
0	111NN0400X	Chiropractic Providers, Chiropractor, Neurology
0	163WN0800X	Nursing Service Providers, Registered Nurse, Neuroscience
0	204C00000X	Allopathic & Osteopathic Physicians, Neuromusculoskeletal Medicine, Sports Medicine
0	204D00000X	Allopathic & Osteopathic Physicians, Neuromusculoskeletal Medicine & OMM
0	207T00000X	Allopathic & Osteopathic Physicians, Neurological Surgery
0	207WX0109X	Allopathic & Osteopathic Physicians, Ophthalmology, Neuro-ophthalmology
0	207YX0901X	Allopathic & Osteopathic Physicians, Otolaryngology, Otology & Neurotology
0	207ZN0500X	Allopathic & Osteopathic Physicians, Pathology, Neuropathology
0	2080P0008X	Allopathic & Osteopathic Physicians, Pediatrics, Neurodevelopmental Disabilities
0	2081N0008X	Allopathic & Osteopathic Physicians, Physical Medicine & Rehabilitation, Neuromuscular Medicine
0	2084A0401X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Addiction Medicine
0	2084A2900X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Neurocritical Care
0	2084B0002X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Obesity Medicine
0	2084B0040X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Behavioral Neurology & Neuropsychiatry
0	2084D0003X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Diagnostic Neuroimaging
0	2084E0001X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Epilepsy
0	2084F0202X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Forensic Psychiatry
0	2084H0002X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Hospice and Palliative Medicine
0	2084N0008X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Neuromuscular Medicine
0	2084N0400X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Neurology
0	2084N0402X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Neurology with Special Qualifications in Child Neurology
0	2084N0600X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Clinical Neurophysiology
0	2084P0005X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Neurodevelopmental Disabilities
0	2084P0015X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Psychosomatic Medicine
0	2084P0301X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Brain Injury Medicine
0	2084P0800X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Psychiatry
0	2084P0802X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Addiction Psychiatry
0	2084P0804X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Child & Adolescent Psychiatry
0	2084P0805X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Geriatric Psychiatry
0	2084P2900X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Pain Medicine
0	2084S0010X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Sports Medicine
0	2084S0012X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Sleep Medicine
0	2084V0102X	Allopathic & Osteopathic Physicians, Psychiatry & Neurology, Vascular Neurology
0	2085D0003X	Allopathic & Osteopathic Physicians, Radiology, Diagnostic Neuroimaging
0	2085N0700X	Allopathic & Osteopathic Physicians, Radiology, Neuroradiology

Appendix G. List of Provider Specialty Codes Used to Define Exposures in this Request

Specialty Code Type	Specialty	Description
0	2251N0400X	Respiratory, Developmental, Rehabilitative and Restorative Service Providers, Physical Therapist, Neurology
0	225XN1300X	Respiratory, Developmental, Rehabilitative and Restorative Service Providers, Occupational Therapist, Neurorehabilitation
0	246ZE0600X	Technologists, Technicians & Other Technical Service Providers, Specialist/Technologist, Other, Electroneurodiagnostic
0	364SN0800X	Physician Assistants & Advanced Practice Nursing Providers, Clinical Nurse Specialist, Neuroscience

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
	Acute Myocardial Infarction		
I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	Diagnosis	ICD-10-CM
I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	Diagnosis	ICD-10-CM
I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Diagnosis	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	Diagnosis	ICD-10-CM
I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Diagnosis	ICD-10-CM
I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	Diagnosis	ICD-10-CM
I21.29	ST elevation (STEMI) myocardial infarction involving other sites	Diagnosis	ICD-10-CM
I21.3	ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I21.4	Non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I21.9	Acute myocardial infarction, unspecified	Diagnosis	ICD-10-CM
I21.A1	Myocardial infarction type 2	Diagnosis	ICD-10-CM
I21.A9	Other myocardial infarction type	Diagnosis	ICD-10-CM
I21.B	Myocardial infarction with coronary microvascular dysfunction	Diagnosis	ICD-10-CM
I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I23.0	Hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.1	Atrial septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.2	Ventricular septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.3	Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.4	Rupture of chordae tendineae as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.5	Rupture of papillary muscle as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.7	Postinfarction angina	Diagnosis	ICD-10-CM
I23.8	Other current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
	Glaucoma		
H40.011	Open angle with borderline findings, low risk, right eye	Diagnosis	ICD-10-CM
H40.012	Open angle with borderline findings, low risk, left eye	Diagnosis	ICD-10-CM
H40.013	Open angle with borderline findings, low risk, bilateral	Diagnosis	ICD-10-CM
H40.019	Open angle with borderline findings, low risk, unspecified eye	Diagnosis	ICD-10-CM
H40.021	Open angle with borderline findings, high risk, right eye	Diagnosis	ICD-10-CM
H40.022	Open angle with borderline findings, high risk, left eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
H40.023	Open angle with borderline findings, high risk, bilateral	Diagnosis	ICD-10-CM
H40.029	Open angle with borderline findings, high risk, unspecified eye	Diagnosis	ICD-10-CM
H40.041	Steroid responder, right eye	Diagnosis	ICD-10-CM
H40.042	Steroid responder, left eye	Diagnosis	ICD-10-CM
H40.043	Steroid responder, bilateral	Diagnosis	ICD-10-CM
H40.049	Steroid responder, unspecified eye	Diagnosis	ICD-10-CM
H40.051	Ocular hypertension, right eye	Diagnosis	ICD-10-CM
H40.052	Ocular hypertension, left eye	Diagnosis	ICD-10-CM
H40.053	Ocular hypertension, bilateral	Diagnosis	ICD-10-CM
H40.059	Ocular hypertension, unspecified eye	Diagnosis	ICD-10-CM
H40.10X0	Unspecified open-angle glaucoma, stage unspecified	Diagnosis	ICD-10-CM
H40.10X1	Unspecified open-angle glaucoma, mild stage	Diagnosis	ICD-10-CM
H40.10X2	Unspecified open-angle glaucoma, moderate stage	Diagnosis	ICD-10-CM
H40.10X3	Unspecified open-angle glaucoma, severe stage	Diagnosis	ICD-10-CM
H40.10X4	Unspecified open-angle glaucoma, indeterminate stage	Diagnosis	ICD-10-CM
H40.1110	Primary open-angle glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1111	Primary open-angle glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1112	Primary open-angle glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1113	Primary open-angle glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1114	Primary open-angle glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1120	Primary open-angle glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1121	Primary open-angle glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1122	Primary open-angle glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1123	Primary open-angle glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1124	Primary open-angle glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1130	Primary open-angle glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.1131	Primary open-angle glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1132	Primary open-angle glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1133	Primary open-angle glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1134	Primary open-angle glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1190	Primary open-angle glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1191	Primary open-angle glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1192	Primary open-angle glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1193	Primary open-angle glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1194	Primary open-angle glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.11X0	Primary open-angle glaucoma, stage unspecified	Diagnosis	ICD-10-CM
H40.11X1	Primary open-angle glaucoma, mild stage	Diagnosis	ICD-10-CM
H40.11X2	Primary open-angle glaucoma, moderate stage	Diagnosis	ICD-10-CM
H40.11X3	Primary open-angle glaucoma, severe stage	Diagnosis	ICD-10-CM
H40.11X4	Primary open-angle glaucoma, indeterminate stage	Diagnosis	ICD-10-CM
H40.1210	Low-tension glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1211	Low-tension glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1212	Low-tension glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1213	Low-tension glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
H40.1214	Low-tension glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1220	Low-tension glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1221	Low-tension glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1222	Low-tension glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1223	Low-tension glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1224	Low-tension glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1230	Low-tension glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.1231	Low-tension glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1232	Low-tension glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1233	Low-tension glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1234	Low-tension glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1290	Low-tension glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1291	Low-tension glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1292	Low-tension glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1293	Low-tension glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1294	Low-tension glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1310	Pigmentary glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1311	Pigmentary glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1312	Pigmentary glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1313	Pigmentary glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1314	Pigmentary glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1320	Pigmentary glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1321	Pigmentary glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1322	Pigmentary glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1323	Pigmentary glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1324	Pigmentary glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1330	Pigmentary glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.1331	Pigmentary glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1332	Pigmentary glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1333	Pigmentary glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1334	Pigmentary glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1390	Pigmentary glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1391	Pigmentary glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1392	Pigmentary glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1393	Pigmentary glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1394	Pigmentary glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1410	Capsular glaucoma with pseudoexfoliation of lens, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1411	Capsular glaucoma with pseudoexfoliation of lens, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1412	Capsular glaucoma with pseudoexfoliation of lens, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1413	Capsular glaucoma with pseudoexfoliation of lens, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1414	Capsular glaucoma with pseudoexfoliation of lens, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1420	Capsular glaucoma with pseudoexfoliation of lens, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1421	Capsular glaucoma with pseudoexfoliation of lens, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1422	Capsular glaucoma with pseudoexfoliation of lens, left eye, moderate stage	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
H40.1423	Capsular glaucoma with pseudoexfoliation of lens, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1424	Capsular glaucoma with pseudoexfoliation of lens, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1430	Capsular glaucoma with pseudoexfoliation of lens, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.1431	Capsular glaucoma with pseudoexfoliation of lens, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1432	Capsular glaucoma with pseudoexfoliation of lens, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1433	Capsular glaucoma with pseudoexfoliation of lens, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1434	Capsular glaucoma with pseudoexfoliation of lens, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1490	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1491	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1492	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1493	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1494	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.151	Residual stage of open-angle glaucoma, right eye	Diagnosis	ICD-10-CM
H40.152	Residual stage of open-angle glaucoma, left eye	Diagnosis	ICD-10-CM
H40.153	Residual stage of open-angle glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.159	Residual stage of open-angle glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.20X0	Unspecified primary angle-closure glaucoma, stage unspecified	Diagnosis	ICD-10-CM
H40.20X1	Unspecified primary angle-closure glaucoma, mild stage	Diagnosis	ICD-10-CM
H40.20X2	Unspecified primary angle-closure glaucoma, moderate stage	Diagnosis	ICD-10-CM
H40.20X3	Unspecified primary angle-closure glaucoma, severe stage	Diagnosis	ICD-10-CM
H40.20X4	Unspecified primary angle-closure glaucoma, indeterminate stage	Diagnosis	ICD-10-CM
H40.211	Acute angle-closure glaucoma, right eye	Diagnosis	ICD-10-CM
H40.212	Acute angle-closure glaucoma, left eye	Diagnosis	ICD-10-CM
H40.213	Acute angle-closure glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.219	Acute angle-closure glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.2210	Chronic angle-closure glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.2211	Chronic angle-closure glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.2212	Chronic angle-closure glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.2213	Chronic angle-closure glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.2214	Chronic angle-closure glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.2220	Chronic angle-closure glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.2221	Chronic angle-closure glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.2222	Chronic angle-closure glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.2223	Chronic angle-closure glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.2224	Chronic angle-closure glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.2230	Chronic angle-closure glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.2231	Chronic angle-closure glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.2232	Chronic angle-closure glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.2233	Chronic angle-closure glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.2234	Chronic angle-closure glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.2290	Chronic angle-closure glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
H40.2291	Chronic angle-closure glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.2292	Chronic angle-closure glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.2293	Chronic angle-closure glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.2294	Chronic angle-closure glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.231	Intermittent angle-closure glaucoma, right eye	Diagnosis	ICD-10-CM
H40.232	Intermittent angle-closure glaucoma, left eye	Diagnosis	ICD-10-CM
H40.233	Intermittent angle-closure glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.239	Intermittent angle-closure glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.241	Residual stage of angle-closure glaucoma, right eye	Diagnosis	ICD-10-CM
H40.242	Residual stage of angle-closure glaucoma, left eye	Diagnosis	ICD-10-CM
H40.243	Residual stage of angle-closure glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.249	Residual stage of angle-closure glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.30X0	Glaucoma secondary to eye trauma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.30X1	Glaucoma secondary to eye trauma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.30X2	Glaucoma secondary to eye trauma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.30X3	Glaucoma secondary to eye trauma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.30X4	Glaucoma secondary to eye trauma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.31X0	Glaucoma secondary to eye trauma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.31X1	Glaucoma secondary to eye trauma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.31X2	Glaucoma secondary to eye trauma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.31X3	Glaucoma secondary to eye trauma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.31X4	Glaucoma secondary to eye trauma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.32X0	Glaucoma secondary to eye trauma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.32X1	Glaucoma secondary to eye trauma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.32X2	Glaucoma secondary to eye trauma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.32X3	Glaucoma secondary to eye trauma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.32X4	Glaucoma secondary to eye trauma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.33X0	Glaucoma secondary to eye trauma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.33X1	Glaucoma secondary to eye trauma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.33X2	Glaucoma secondary to eye trauma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.33X3	Glaucoma secondary to eye trauma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.33X4	Glaucoma secondary to eye trauma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.40X0	Glaucoma secondary to eye inflammation, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.40X1	Glaucoma secondary to eye inflammation, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.40X2	Glaucoma secondary to eye inflammation, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.40X3	Glaucoma secondary to eye inflammation, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.40X4	Glaucoma secondary to eye inflammation, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.41X0	Glaucoma secondary to eye inflammation, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.41X1	Glaucoma secondary to eye inflammation, right eye, mild stage	Diagnosis	ICD-10-CM
H40.41X2	Glaucoma secondary to eye inflammation, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.41X3	Glaucoma secondary to eye inflammation, right eye, severe stage	Diagnosis	ICD-10-CM
H40.41X4	Glaucoma secondary to eye inflammation, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.42X0	Glaucoma secondary to eye inflammation, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.42X1	Glaucoma secondary to eye inflammation, left eye, mild stage	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
H40.42X2	Glaucoma secondary to eye inflammation, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.42X3	Glaucoma secondary to eye inflammation, left eye, severe stage	Diagnosis	ICD-10-CM
H40.42X4	Glaucoma secondary to eye inflammation, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.43X0	Glaucoma secondary to eye inflammation, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.43X1	Glaucoma secondary to eye inflammation, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.43X2	Glaucoma secondary to eye inflammation, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.43X3	Glaucoma secondary to eye inflammation, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.43X4	Glaucoma secondary to eye inflammation, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.50X0	Glaucoma secondary to other eye disorders, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.50X1	Glaucoma secondary to other eye disorders, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.50X2	Glaucoma secondary to other eye disorders, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.50X3	Glaucoma secondary to other eye disorders, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.50X4	Glaucoma secondary to other eye disorders, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.51X0	Glaucoma secondary to other eye disorders, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.51X1	Glaucoma secondary to other eye disorders, right eye, mild stage	Diagnosis	ICD-10-CM
H40.51X2	Glaucoma secondary to other eye disorders, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.51X3	Glaucoma secondary to other eye disorders, right eye, severe stage	Diagnosis	ICD-10-CM
H40.51X4	Glaucoma secondary to other eye disorders, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.52X0	Glaucoma secondary to other eye disorders, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.52X1	Glaucoma secondary to other eye disorders, left eye, mild stage	Diagnosis	ICD-10-CM
H40.52X2	Glaucoma secondary to other eye disorders, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.52X3	Glaucoma secondary to other eye disorders, left eye, severe stage	Diagnosis	ICD-10-CM
H40.52X4	Glaucoma secondary to other eye disorders, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.53X0	Glaucoma secondary to other eye disorders, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.53X1	Glaucoma secondary to other eye disorders, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.53X2	Glaucoma secondary to other eye disorders, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.53X3	Glaucoma secondary to other eye disorders, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.53X4	Glaucoma secondary to other eye disorders, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.60X0	Glaucoma secondary to drugs, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.60X1	Glaucoma secondary to drugs, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.60X2	Glaucoma secondary to drugs, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.60X3	Glaucoma secondary to drugs, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.60X4	Glaucoma secondary to drugs, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.61X0	Glaucoma secondary to drugs, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.61X1	Glaucoma secondary to drugs, right eye, mild stage	Diagnosis	ICD-10-CM
H40.61X2	Glaucoma secondary to drugs, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.61X3	Glaucoma secondary to drugs, right eye, severe stage	Diagnosis	ICD-10-CM
H40.61X4	Glaucoma secondary to drugs, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.62X0	Glaucoma secondary to drugs, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.62X1	Glaucoma secondary to drugs, left eye, mild stage	Diagnosis	ICD-10-CM
H40.62X2	Glaucoma secondary to drugs, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.62X3	Glaucoma secondary to drugs, left eye, severe stage	Diagnosis	ICD-10-CM
H40.62X4	Glaucoma secondary to drugs, left eye, indeterminate stage	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
H40.63X0	Glaucoma secondary to drugs, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.63X1	Glaucoma secondary to drugs, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.63X2	Glaucoma secondary to drugs, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.63X3	Glaucoma secondary to drugs, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.63X4	Glaucoma secondary to drugs, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.811	Glaucoma with increased episcleral venous pressure, right eye	Diagnosis	ICD-10-CM
H40.812	Glaucoma with increased episcleral venous pressure, left eye	Diagnosis	ICD-10-CM
H40.813	Glaucoma with increased episcleral venous pressure, bilateral	Diagnosis	ICD-10-CM
H40.819	Glaucoma with increased episcleral venous pressure, unspecified eye	Diagnosis	ICD-10-CM
H40.821	Hypersecretion glaucoma, right eye	Diagnosis	ICD-10-CM
H40.822	Hypersecretion glaucoma, left eye	Diagnosis	ICD-10-CM
H40.823	Hypersecretion glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.829	Hypersecretion glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.831	Aqueous misdirection, right eye	Diagnosis	ICD-10-CM
H40.832	Aqueous misdirection, left eye	Diagnosis	ICD-10-CM
H40.833	Aqueous misdirection, bilateral	Diagnosis	ICD-10-CM
H40.839	Aqueous misdirection, unspecified eye	Diagnosis	ICD-10-CM
H40.89	Other specified glaucoma	Diagnosis	ICD-10-CM
H40.9	Unspecified glaucoma	Diagnosis	ICD-10-CM
H42	Glaucoma in diseases classified elsewhere	Diagnosis	ICD-10-CM
H44.511	Absolute glaucoma, right eye	Diagnosis	ICD-10-CM
H44.512	Absolute glaucoma, left eye	Diagnosis	ICD-10-CM
H44.513	Absolute glaucoma, bilateral	Diagnosis	ICD-10-CM
H44.519	Absolute glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H47.231	Glaucomatous optic atrophy, right eye	Diagnosis	ICD-10-CM
H47.232	Glaucomatous optic atrophy, left eye	Diagnosis	ICD-10-CM
H47.233	Glaucomatous optic atrophy, bilateral	Diagnosis	ICD-10-CM
H47.239	Glaucomatous optic atrophy, unspecified eye	Diagnosis	ICD-10-CM
Q15.0	Congenital glaucoma	Diagnosis	ICD-10-CM
	Cataract		
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	Diagnosis	ICD-10-CM
E09.36	Drug or chemical induced diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
H25.011	Cortical age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.012	Cortical age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.013	Cortical age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.019	Cortical age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.031	Anterior subcapsular polar age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.032	Anterior subcapsular polar age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.033	Anterior subcapsular polar age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.039	Anterior subcapsular polar age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.041	Posterior subcapsular polar age-related cataract, right eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
H25.042	Posterior subcapsular polar age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.043	Posterior subcapsular polar age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.049	Posterior subcapsular polar age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.091	Other age-related incipient cataract, right eye	Diagnosis	ICD-10-CM
H25.092	Other age-related incipient cataract, left eye	Diagnosis	ICD-10-CM
H25.093	Other age-related incipient cataract, bilateral	Diagnosis	ICD-10-CM
H25.099	Other age-related incipient cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.10	Age-related nuclear cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.11	Age-related nuclear cataract, right eye	Diagnosis	ICD-10-CM
H25.12	Age-related nuclear cataract, left eye	Diagnosis	ICD-10-CM
H25.13	Age-related nuclear cataract, bilateral	Diagnosis	ICD-10-CM
H25.20	Age-related cataract, morgagnian type, unspecified eye	Diagnosis	ICD-10-CM
H25.21	Age-related cataract, morgagnian type, right eye	Diagnosis	ICD-10-CM
H25.22	Age-related cataract, morgagnian type, left eye	Diagnosis	ICD-10-CM
H25.23	Age-related cataract, morgagnian type, bilateral	Diagnosis	ICD-10-CM
H25.811	Combined forms of age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.812	Combined forms of age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.813	Combined forms of age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.819	Combined forms of age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.89	Other age-related cataract	Diagnosis	ICD-10-CM
H25.9	Unspecified age-related cataract	Diagnosis	ICD-10-CM
H26.001	Unspecified infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.002	Unspecified infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.003	Unspecified infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM
H26.009	Unspecified infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.011	Infantile and juvenile cortical, lamellar, or zonular cataract, right eye	Diagnosis	ICD-10-CM
H26.012	Infantile and juvenile cortical, lamellar, or zonular cataract, left eye	Diagnosis	ICD-10-CM
H26.013	Infantile and juvenile cortical, lamellar, or zonular cataract, bilateral	Diagnosis	ICD-10-CM
H26.019	Infantile and juvenile cortical, lamellar, or zonular cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.031	Infantile and juvenile nuclear cataract, right eye	Diagnosis	ICD-10-CM
H26.032	Infantile and juvenile nuclear cataract, left eye	Diagnosis	ICD-10-CM
H26.033	Infantile and juvenile nuclear cataract, bilateral	Diagnosis	ICD-10-CM
H26.039	Infantile and juvenile nuclear cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.041	Anterior subcapsular polar infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.042	Anterior subcapsular polar infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.043	Anterior subcapsular polar infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM
H26.049	Anterior subcapsular polar infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.051	Posterior subcapsular polar infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.052	Posterior subcapsular polar infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.053	Posterior subcapsular polar infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM
H26.059	Posterior subcapsular polar infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.061	Combined forms of infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.062	Combined forms of infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.063	Combined forms of infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
H26.069	Combined forms of infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.09	Other infantile and juvenile cataract	Diagnosis	ICD-10-CM
H26.101	Unspecified traumatic cataract, right eye	Diagnosis	ICD-10-CM
H26.102	Unspecified traumatic cataract, left eye	Diagnosis	ICD-10-CM
H26.103	Unspecified traumatic cataract, bilateral	Diagnosis	ICD-10-CM
H26.109	Unspecified traumatic cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.111	Localized traumatic opacities, right eye	Diagnosis	ICD-10-CM
H26.112	Localized traumatic opacities, left eye	Diagnosis	ICD-10-CM
H26.113	Localized traumatic opacities, bilateral	Diagnosis	ICD-10-CM
H26.119	Localized traumatic opacities, unspecified eye	Diagnosis	ICD-10-CM
H26.121	Partially resolved traumatic cataract, right eye	Diagnosis	ICD-10-CM
H26.122	Partially resolved traumatic cataract, left eye	Diagnosis	ICD-10-CM
H26.123	Partially resolved traumatic cataract, bilateral	Diagnosis	ICD-10-CM
H26.129	Partially resolved traumatic cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.131	Total traumatic cataract, right eye	Diagnosis	ICD-10-CM
H26.132	Total traumatic cataract, left eye	Diagnosis	ICD-10-CM
H26.133	Total traumatic cataract, bilateral	Diagnosis	ICD-10-CM
H26.139	Total traumatic cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.20	Unspecified complicated cataract	Diagnosis	ICD-10-CM
H26.211	Cataract with neovascularization, right eye	Diagnosis	ICD-10-CM
H26.212	Cataract with neovascularization, left eye	Diagnosis	ICD-10-CM
H26.213	Cataract with neovascularization, bilateral	Diagnosis	ICD-10-CM
H26.219	Cataract with neovascularization, unspecified eye	Diagnosis	ICD-10-CM
H26.221	Cataract secondary to ocular disorders (degenerative) (inflammatory), right eye	Diagnosis	ICD-10-CM
H26.222	Cataract secondary to ocular disorders (degenerative) (inflammatory), left eye	Diagnosis	ICD-10-CM
H26.223	Cataract secondary to ocular disorders (degenerative) (inflammatory), bilateral	Diagnosis	ICD-10-CM
H26.229	Cataract secondary to ocular disorders (degenerative) (inflammatory), unspecified eye	Diagnosis	ICD-10-CM
H26.30	Drug-induced cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.31	Drug-induced cataract, right eye	Diagnosis	ICD-10-CM
H26.32	Drug-induced cataract, left eye	Diagnosis	ICD-10-CM
H26.33	Drug-induced cataract, bilateral	Diagnosis	ICD-10-CM
H26.40	Unspecified secondary cataract	Diagnosis	ICD-10-CM
H26.411	Soemmering's ring, right eye	Diagnosis	ICD-10-CM
H26.412	Soemmering's ring, left eye	Diagnosis	ICD-10-CM
H26.413	Soemmering's ring, bilateral	Diagnosis	ICD-10-CM
H26.419	Soemmering's ring, unspecified eye	Diagnosis	ICD-10-CM
H26.491	Other secondary cataract, right eye	Diagnosis	ICD-10-CM
H26.492	Other secondary cataract, left eye	Diagnosis	ICD-10-CM
H26.493	Other secondary cataract, bilateral	Diagnosis	ICD-10-CM
H26.499	Other secondary cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.8	Other specified cataract	Diagnosis	ICD-10-CM
H26.9	Unspecified cataract	Diagnosis	ICD-10-CM
Q12.0	Congenital cataract	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
	Hip/Pelvic Fracture		
M80.051A	Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.052A	Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.059A	Age-related osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.0B1A	Age-related osteoporosis with current pathological fracture, right pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.0B2A	Age-related osteoporosis with current pathological fracture, left pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.0B9A	Age-related osteoporosis with current pathological fracture, unspecified pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.851A	Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.852A	Other osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.859A	Other osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.8B1A	Other osteoporosis with current pathological fracture, right pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.8B2A	Other osteoporosis with current pathological fracture, left pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.8B9A	Other osteoporosis with current pathological fracture, unspecified pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.350A	Stress fracture, pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.351A	Stress fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.352A	Stress fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.353A	Stress fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.359A	Stress fracture, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.451A	Pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.452A	Pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.453A	Pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.459A	Pathological fracture, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.550A	Pathological fracture in neoplastic disease, pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.551A	Pathological fracture in neoplastic disease, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.552A	Pathological fracture in neoplastic disease, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.553A	Pathological fracture in neoplastic disease, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.559A	Pathological fracture in neoplastic disease, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.650A	Pathological fracture in other disease, pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M84.651A	Pathological fracture in other disease, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.652A	Pathological fracture in other disease, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.653A	Pathological fracture in other disease, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.659A	Pathological fracture in other disease, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
M97.01XA	Periprosthetic fracture around internal prosthetic right hip joint, initial encounter	Diagnosis	ICD-10-CM
M97.02XA	Periprosthetic fracture around internal prosthetic left hip joint, initial encounter	Diagnosis	ICD-10-CM
S32.301A	Unspecified fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.301B	Unspecified fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.302A	Unspecified fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.302B	Unspecified fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.309A	Unspecified fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.309B	Unspecified fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.311A	Displaced avulsion fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.311B	Displaced avulsion fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.312A	Displaced avulsion fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.312B	Displaced avulsion fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.313A	Displaced avulsion fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.313B	Displaced avulsion fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.314A	Nondisplaced avulsion fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.314B	Nondisplaced avulsion fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.315A	Nondisplaced avulsion fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.315B	Nondisplaced avulsion fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.316A	Nondisplaced avulsion fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.316B	Nondisplaced avulsion fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.391A	Other fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.391B	Other fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.392A	Other fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.392B	Other fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.399A	Other fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.399B	Other fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.401A	Unspecified fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.401B	Unspecified fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.402A	Unspecified fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.402B	Unspecified fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.409A	Unspecified fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S32.409B	Unspecified fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.411A	Displaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.411B	Displaced fracture of anterior wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.412A	Displaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.412B	Displaced fracture of anterior wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.413A	Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.413B	Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.414A	Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.414B	Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.415A	Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.415B	Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.416A	Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.416B	Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.421A	Displaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.421B	Displaced fracture of posterior wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.422A	Displaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.422B	Displaced fracture of posterior wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.423A	Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.423B	Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.424A	Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.424B	Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.425A	Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S32.425B	Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.426A	Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.426B	Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.431A	Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.431B	Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.432A	Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.432B	Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.433A	Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.433B	Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.434A	Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.434B	Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.435A	Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.435B	Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.436A	Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.436B	Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.441A	Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.441B	Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.442A	Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.442B	Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.443A	Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.443B	Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.444A	Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S32.444B	Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.445A	Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.445B	Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.446A	Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.446B	Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.451A	Displaced transverse fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.451B	Displaced transverse fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.452A	Displaced transverse fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.452B	Displaced transverse fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.453A	Displaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.453B	Displaced transverse fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.454A	Nondisplaced transverse fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.454B	Nondisplaced transverse fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.455A	Nondisplaced transverse fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.455B	Nondisplaced transverse fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.456A	Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.456B	Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.461A	Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.461B	Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.462A	Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.462B	Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.463A	Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S32.463B	Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.464A	Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.464B	Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.465A	Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.465B	Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.466A	Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.466B	Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.471A	Displaced fracture of medial wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.471B	Displaced fracture of medial wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.472A	Displaced fracture of medial wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.472B	Displaced fracture of medial wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.473A	Displaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.473B	Displaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.474A	Nondisplaced fracture of medial wall of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.474B	Nondisplaced fracture of medial wall of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.475A	Nondisplaced fracture of medial wall of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.475B	Nondisplaced fracture of medial wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.476A	Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.476B	Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.481A	Displaced dome fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.481B	Displaced dome fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.482A	Displaced dome fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.482B	Displaced dome fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.483A	Displaced dome fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S32.483B	Displaced dome fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.484A	Nondisplaced dome fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.484B	Nondisplaced dome fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.485A	Nondisplaced dome fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.485B	Nondisplaced dome fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.486A	Nondisplaced dome fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.486B	Nondisplaced dome fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.491A	Other specified fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.491B	Other specified fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.492A	Other specified fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.492B	Other specified fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.499A	Other specified fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.499B	Other specified fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.501A	Unspecified fracture of right pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.501B	Unspecified fracture of right pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.502A	Unspecified fracture of left pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.502B	Unspecified fracture of left pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.509A	Unspecified fracture of unspecified pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.509B	Unspecified fracture of unspecified pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.511A	Fracture of superior rim of right pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.511B	Fracture of superior rim of right pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.512A	Fracture of superior rim of left pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.512B	Fracture of superior rim of left pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.519A	Fracture of superior rim of unspecified pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.519B	Fracture of superior rim of unspecified pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.591A	Other specified fracture of right pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.591B	Other specified fracture of right pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.592A	Other specified fracture of left pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.592B	Other specified fracture of left pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.599A	Other specified fracture of unspecified pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.599B	Other specified fracture of unspecified pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.601A	Unspecified fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.601B	Unspecified fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.602A	Unspecified fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.602B	Unspecified fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S32.609A	Unspecified fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.609B	Unspecified fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.611A	Displaced avulsion fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.611B	Displaced avulsion fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.612A	Displaced avulsion fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.612B	Displaced avulsion fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.613A	Displaced avulsion fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.613B	Displaced avulsion fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.614A	Nondisplaced avulsion fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.614B	Nondisplaced avulsion fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.615A	Nondisplaced avulsion fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.615B	Nondisplaced avulsion fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.616A	Nondisplaced avulsion fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.616B	Nondisplaced avulsion fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.691A	Other specified fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.691B	Other specified fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.692A	Other specified fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.692B	Other specified fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.699A	Other specified fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.699B	Other specified fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.810A	Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.810B	Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.811A	Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.811B	Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.82XA	Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.82XB	Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.89XA	Fracture of other parts of pelvis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.89XB	Fracture of other parts of pelvis, initial encounter for open fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S32.9XXA	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.9XXB	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S72.001A	Fracture of unspecified part of neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.001B	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.001C	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.002A	Fracture of unspecified part of neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.002B	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.002C	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.009A	Fracture of unspecified part of neck of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.009B	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.009C	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.011A	Unspecified intracapsular fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.011B	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.011C	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.012A	Unspecified intracapsular fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.012B	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.012C	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.019A	Unspecified intracapsular fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.019B	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.019C	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.021A	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.021B	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S72.021C	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.022A	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.022B	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.022C	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.023A	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.023B	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.023C	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.024A	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.024B	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.024C	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.025A	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.025B	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.025C	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.026A	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.026B	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.026C	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.031A	Displaced midcervical fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.031B	Displaced midcervical fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.031C	Displaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.032A	Displaced midcervical fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.032B	Displaced midcervical fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.032C	Displaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.033A	Displaced midcervical fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S72.033B	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.033C	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.034A	Nondisplaced midcervical fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.034B	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.034C	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.035A	Nondisplaced midcervical fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.035B	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.035C	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.036A	Nondisplaced midcervical fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.036B	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.036C	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.041A	Displaced fracture of base of neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.041B	Displaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.041C	Displaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.042A	Displaced fracture of base of neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.042B	Displaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.042C	Displaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.043A	Displaced fracture of base of neck of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.043B	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.043C	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.044A	Nondisplaced fracture of base of neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.044B	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S72.044C	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.045A	Nondisplaced fracture of base of neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.045B	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.045C	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.046A	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.046B	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.046C	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.051A	Unspecified fracture of head of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.051B	Unspecified fracture of head of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.051C	Unspecified fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.052A	Unspecified fracture of head of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.052B	Unspecified fracture of head of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.052C	Unspecified fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.059A	Unspecified fracture of head of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.059B	Unspecified fracture of head of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.059C	Unspecified fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.061A	Displaced articular fracture of head of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.061B	Displaced articular fracture of head of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.061C	Displaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.062A	Displaced articular fracture of head of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.062B	Displaced articular fracture of head of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.062C	Displaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.063A	Displaced articular fracture of head of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S72.063B	Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.063C	Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.064A	Nondisplaced articular fracture of head of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.064B	Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.064C	Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.065A	Nondisplaced articular fracture of head of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.065B	Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.065C	Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.066A	Nondisplaced articular fracture of head of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.066B	Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.066C	Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.091A	Other fracture of head and neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.091B	Other fracture of head and neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.091C	Other fracture of head and neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.092A	Other fracture of head and neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.092B	Other fracture of head and neck of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.092C	Other fracture of head and neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.099A	Other fracture of head and neck of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.099B	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.099C	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.101A	Unspecified trochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.101B	Unspecified trochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
S72.101C	Unspecified trochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.102A	Unspecified trochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.102B	Unspecified trochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.102C	Unspecified trochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.109A	Unspecified trochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.109B	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.109C	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.111A	Displaced fracture of greater trochanter of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.111B	Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.111C	Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.112A	Displaced fracture of greater trochanter of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.112B	Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.112C	Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.113A	Displaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.113B	Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.113C	Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.114A	Nondisplaced fracture of greater trochanter of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.114B	Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.114C	Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.115A	Nondisplaced fracture of greater trochanter of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.115B	Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.115C	Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S72.116A	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.116B	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.116C	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.121A	Displaced fracture of lesser trochanter of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.121B	Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.121C	Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.122A	Displaced fracture of lesser trochanter of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.122B	Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.122C	Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.123A	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.123B	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.123C	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.124A	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.124B	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.124C	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.125A	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.125B	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.125C	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.126A	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.126B	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.126C	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.131A	Displaced apophyseal fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S72.131B	Displaced apophyseal fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.131C	Displaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.132A	Displaced apophyseal fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.132B	Displaced apophyseal fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.132C	Displaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.133A	Displaced apophyseal fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.133B	Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.133C	Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.134A	Nondisplaced apophyseal fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.134B	Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.134C	Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.135A	Nondisplaced apophyseal fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.135B	Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.135C	Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.136A	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.136B	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.136C	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.141A	Displaced intertrochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.141B	Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.141C	Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.142A	Displaced intertrochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.142B	Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S72.142C	Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.143A	Displaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.143B	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.143C	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.144A	Nondisplaced intertrochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.144B	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.144C	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.145A	Nondisplaced intertrochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.145B	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.145C	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.146A	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.146B	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.146C	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.21XA	Displaced subtrochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.21XB	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.21XC	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.22XA	Displaced subtrochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.22XB	Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.22XC	Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.23XA	Displaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.23XB	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.23XC	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S72.24XA	Nondisplaced subtrochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.24XB	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.24XC	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.25XA	Nondisplaced subtrochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.25XB	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.25XC	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.26XA	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.26XB	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.26XC	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S79.001A	Unspecified physeal fracture of upper end of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.002A	Unspecified physeal fracture of upper end of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.009A	Unspecified physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.011A	Salter-Harris Type I physeal fracture of upper end of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.012A	Salter-Harris Type I physeal fracture of upper end of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.019A	Salter-Harris Type I physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.091A	Other physeal fracture of upper end of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.092A	Other physeal fracture of upper end of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.099A	Other physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
	Alzheimer's Disease		
G30.0	Alzheimer's disease with early onset	Diagnosis	ICD-10-CM
G30.1	Alzheimer's disease with late onset	Diagnosis	ICD-10-CM
G30.8	Other Alzheimer's disease	Diagnosis	ICD-10-CM
G30.9	Alzheimer's disease, unspecified	Diagnosis	ICD-10-CM
	Atrial Fibrillation		
I48.0	Paroxysmal atrial fibrillation	Diagnosis	ICD-10-CM
I48.1	Persistent atrial fibrillation	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I48.11	Longstanding persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.19	Other persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.2	Chronic atrial fibrillation	Diagnosis	ICD-10-CM
I48.20	Chronic atrial fibrillation, unspecified	Diagnosis	ICD-10-CM
I48.21	Permanent atrial fibrillation	Diagnosis	ICD-10-CM
I48.91	Unspecified atrial fibrillation	Diagnosis	ICD-10-CM
	Diabetes		
E08.00	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E08.01	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E08.10	Diabetes mellitus due to underlying condition with ketoacidosis without coma	Diagnosis	ICD-10-CM
E08.11	Diabetes mellitus due to underlying condition with ketoacidosis with coma	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E08.311	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.319	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.321	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3211	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3212	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3219	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.329	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3291	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3292	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3299	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.331	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E08.3311	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3312	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3411	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3491	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.351	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3511	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.3521	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3531	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3539	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3541	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E08.3542	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E08.3543	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E08.3549	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E08.3551	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E08.3552	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E08.3553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E08.3559	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E08.359	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E08.3591	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	Diagnosis	ICD-10-CM
E08.37X1	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E08.37X2	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E08.37X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E08.37X9	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E08.39	Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E08.40	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E08.41	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E08.42	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E08.43	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	Diagnosis	ICD-10-CM
E08.49	Diabetes mellitus due to underlying condition with other diabetic neurological complication	Diagnosis	ICD-10-CM
E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E08.59	Diabetes mellitus due to underlying condition with other circulatory complications	Diagnosis	ICD-10-CM
E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E08.618	Diabetes mellitus due to underlying condition with other diabetic arthropathy	Diagnosis	ICD-10-CM
E08.620	Diabetes mellitus due to underlying condition with diabetic dermatitis	Diagnosis	ICD-10-CM
E08.621	Diabetes mellitus due to underlying condition with foot ulcer	Diagnosis	ICD-10-CM
E08.622	Diabetes mellitus due to underlying condition with other skin ulcer	Diagnosis	ICD-10-CM
E08.628	Diabetes mellitus due to underlying condition with other skin complications	Diagnosis	ICD-10-CM
E08.630	Diabetes mellitus due to underlying condition with periodontal disease	Diagnosis	ICD-10-CM
E08.638	Diabetes mellitus due to underlying condition with other oral complications	Diagnosis	ICD-10-CM
E08.641	Diabetes mellitus due to underlying condition with hypoglycemia with coma	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E08.649	Diabetes mellitus due to underlying condition with hypoglycemia without coma	Diagnosis	ICD-10-CM
E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	Diagnosis	ICD-10-CM
E08.69	Diabetes mellitus due to underlying condition with other specified complication	Diagnosis	ICD-10-CM
E08.8	Diabetes mellitus due to underlying condition with unspecified complications	Diagnosis	ICD-10-CM
E08.9	Diabetes mellitus due to underlying condition without complications	Diagnosis	ICD-10-CM
E09.00	Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E09.01	Drug or chemical induced diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E09.10	Drug or chemical induced diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E09.11	Drug or chemical induced diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E09.311	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.319	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.321	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3211	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3212	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3213	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3219	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.329	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3291	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3292	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3293	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3299	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3311	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3312	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E09.3313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3319	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3392	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3393	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3399	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.341	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3411	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3412	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3413	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3419	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.349	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3491	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3492	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3493	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3499	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.351	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3511	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3512	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3513	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3519	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E09.3521	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3522	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3523	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3529	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.3531	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3532	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3533	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3539	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.3541	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E09.3542	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E09.3543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E09.3549	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E09.3551	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E09.3552	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E09.3553	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E09.3559	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E09.359	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3591	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3592	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E09.3593	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3599	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.36	Drug or chemical induced diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E09.37X1	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E09.37X2	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E09.37X3	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E09.37X9	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E09.39	Drug or chemical induced diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E09.40	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E09.41	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E09.42	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E09.43	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E09.44	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	Diagnosis	ICD-10-CM
E09.49	Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication	Diagnosis	ICD-10-CM
E09.51	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E09.52	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E09.59	Drug or chemical induced diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E09.610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E09.618	Drug or chemical induced diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E09.620	Drug or chemical induced diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E09.621	Drug or chemical induced diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E09.622	Drug or chemical induced diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E09.628	Drug or chemical induced diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E09.630	Drug or chemical induced diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E09.638	Drug or chemical induced diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E09.641	Drug or chemical induced diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E09.649	Drug or chemical induced diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E09.65	Drug or chemical induced diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E09.69	Drug or chemical induced diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E09.8	Drug or chemical induced diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E09.9	Drug or chemical induced diabetes mellitus without complications	Diagnosis	ICD-10-CM
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E10.3391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E10.59	Type 1 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E10.621	Type 1 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E10.622	Type 1 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E10.628	Type 1 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E10.630	Type 1 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E10.638	Type 1 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E10.65	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E10.69	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E10.8	Type 1 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E10.9	Type 1 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E10.A0	Type 1 diabetes mellitus, presymptomatic, unspecified	Diagnosis	ICD-10-CM
E10.A1	Type 1 diabetes mellitus, presymptomatic, Stage 1	Diagnosis	ICD-10-CM
E10.A2	Type 1 diabetes mellitus, presymptomatic, Stage 2	Diagnosis	ICD-10-CM
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E11.349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E11.359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E11.59	Type 2 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E11.621	Type 2 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E11.622	Type 2 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E11.628	Type 2 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E11.630	Type 2 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E11.638	Type 2 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E11.69	Type 2 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E11.8	Type 2 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E11.9	Type 2 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E13.11	Other specified diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E13.311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.321	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.329	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.331	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.339	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.341	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.349	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.351	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E13.359	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E13.44	Other specified diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E13.49	Other specified diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E13.59	Other specified diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E13.618	Other specified diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E13.620	Other specified diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E13.621	Other specified diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E13.622	Other specified diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E13.628	Other specified diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E13.630	Other specified diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E13.638	Other specified diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E13.641	Other specified diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E13.649	Other specified diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E13.65	Other specified diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E13.69	Other specified diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E13.8	Other specified diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E13.9	Other specified diabetes mellitus without complications	Diagnosis	ICD-10-CM
	Hyperlipidemia		
E78.0	Pure hypercholesterolemia	Diagnosis	ICD-10-CM
E78.00	Pure hypercholesterolemia, unspecified	Diagnosis	ICD-10-CM
E78.01	Familial hypercholesterolemia	Diagnosis	ICD-10-CM
E78.1	Pure hyperglyceridemia	Diagnosis	ICD-10-CM
E78.2	Mixed hyperlipidemia	Diagnosis	ICD-10-CM
E78.3	Hyperchylomicronemia	Diagnosis	ICD-10-CM
E78.4	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.41	Elevated lipoprotein(A)	Diagnosis	ICD-10-CM
E78.49	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.5	Hyperlipidemia, unspecified	Diagnosis	ICD-10-CM
	Heart Failure/Non-Ischemic Heart Disease		
I09.81	Rheumatic heart failure	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I42.0	Dilated cardiomyopathy	Diagnosis	ICD-10-CM
I42.5	Other restrictive cardiomyopathy	Diagnosis	ICD-10-CM
I42.6	Alcoholic cardiomyopathy	Diagnosis	ICD-10-CM
I42.7	Cardiomyopathy due to drug and external agent	Diagnosis	ICD-10-CM
I42.8	Other cardiomyopathies	Diagnosis	ICD-10-CM
I43	Cardiomyopathy in diseases classified elsewhere	Diagnosis	ICD-10-CM
I50.1	Left ventricular failure, unspecified	Diagnosis	ICD-10-CM
I50.20	Unspecified systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.21	Acute systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.22	Chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.23	Acute on chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.30	Unspecified diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.31	Acute diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.32	Chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.33	Acute on chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.40	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.810	Right heart failure, unspecified	Diagnosis	ICD-10-CM
I50.811	Acute right heart failure	Diagnosis	ICD-10-CM
I50.812	Chronic right heart failure	Diagnosis	ICD-10-CM
I50.813	Acute on chronic right heart failure	Diagnosis	ICD-10-CM
I50.814	Right heart failure due to left heart failure	Diagnosis	ICD-10-CM
I50.82	Biventricular heart failure	Diagnosis	ICD-10-CM
I50.83	High output heart failure	Diagnosis	ICD-10-CM
I50.84	End stage heart failure	Diagnosis	ICD-10-CM
I50.89	Other heart failure	Diagnosis	ICD-10-CM
I50.9	Heart failure, unspecified	Diagnosis	ICD-10-CM
P29.0	Neonatal cardiac failure	Diagnosis	ICD-10-CM
	Hypertension		
H35.031	Hypertensive retinopathy, right eye	Diagnosis	ICD-10-CM
H35.032	Hypertensive retinopathy, left eye	Diagnosis	ICD-10-CM
H35.033	Hypertensive retinopathy, bilateral	Diagnosis	ICD-10-CM
H35.039	Hypertensive retinopathy, unspecified eye	Diagnosis	ICD-10-CM
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM
I1A.0	Resistant hypertension	Diagnosis	ICD-10-CM
I67.4	Hypertensive encephalopathy	Diagnosis	ICD-10-CM
N26.2	Page kidney	Diagnosis	ICD-10-CM
	Ischemic Heart Disease		
I20.0	Unstable angina	Diagnosis	ICD-10-CM
I20.1	Angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I20.2	Refractory angina pectoris	Diagnosis	ICD-10-CM
I20.8	Other forms of angina pectoris	Diagnosis	ICD-10-CM
I20.81	Angina pectoris with coronary microvascular dysfunction	Diagnosis	ICD-10-CM
I20.89	Other forms of angina pectoris	Diagnosis	ICD-10-CM
I24.0	Acute coronary thrombosis not resulting in myocardial infarction	Diagnosis	ICD-10-CM
I24.1	Dressler's syndrome	Diagnosis	ICD-10-CM
I24.8	Other forms of acute ischemic heart disease	Diagnosis	ICD-10-CM
I24.81	Acute coronary microvascular dysfunction	Diagnosis	ICD-10-CM
I24.89	Other forms of acute ischemic heart disease	Diagnosis	ICD-10-CM
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris	Diagnosis	ICD-10-CM
I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.112	Atherosclerotic heart disease of native coronary artery with refractory angina pectoris	Diagnosis	ICD-10-CM
I25.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I25.3	Aneurysm of heart	Diagnosis	ICD-10-CM
I25.41	Coronary artery aneurysm	Diagnosis	ICD-10-CM
I25.42	Coronary artery dissection	Diagnosis	ICD-10-CM
I25.5	Ischemic cardiomyopathy	Diagnosis	ICD-10-CM
I25.6	Silent myocardial ischemia	Diagnosis	ICD-10-CM
I25.700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.702	Atherosclerosis of coronary artery bypass graft(s), unspecified, with refractory angina pectoris	Diagnosis	ICD-10-CM
I25.708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.712	Atherosclerosis of autologous vein coronary artery bypass graft(s) with refractory angina pectoris	Diagnosis	ICD-10-CM
I25.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.722	Atherosclerosis of autologous artery coronary artery bypass graft(s) with refractory angina pectoris	Diagnosis	ICD-10-CM
I25.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.732	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with refractory angina pectoris	Diagnosis	ICD-10-CM
I25.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I25.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.752	Atherosclerosis of native coronary artery of transplanted heart with refractory angina pectoris	Diagnosis	ICD-10-CM
I25.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.762	Atherosclerosis of bypass graft of coronary artery of transplanted heart with refractory angina pectoris	Diagnosis	ICD-10-CM
I25.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.792	Atherosclerosis of other coronary artery bypass graft(s) with refractory angina pectoris	Diagnosis	ICD-10-CM
I25.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Diagnosis	ICD-10-CM
I25.811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25.812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25.82	Chronic total occlusion of coronary artery	Diagnosis	ICD-10-CM
I25.83	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-10-CM
I25.84	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-10-CM
I25.85	Chronic coronary microvascular dysfunction	Diagnosis	ICD-10-CM
I25.89	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I25.9	Chronic ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
	Rheumatoid Arthritis/Osteoarthritis		
L40.50	Arthropathic psoriasis, unspecified	Diagnosis	ICD-10-CM
L40.51	Distal interphalangeal psoriatic arthropathy	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
L40.54	Psoriatic juvenile arthropathy	Diagnosis	ICD-10-CM
L40.59	Other psoriatic arthropathy	Diagnosis	ICD-10-CM
M05.00	Felty's syndrome, unspecified site	Diagnosis	ICD-10-CM
M05.011	Felty's syndrome, right shoulder	Diagnosis	ICD-10-CM
M05.012	Felty's syndrome, left shoulder	Diagnosis	ICD-10-CM
M05.019	Felty's syndrome, unspecified shoulder	Diagnosis	ICD-10-CM
M05.021	Felty's syndrome, right elbow	Diagnosis	ICD-10-CM
M05.022	Felty's syndrome, left elbow	Diagnosis	ICD-10-CM
M05.029	Felty's syndrome, unspecified elbow	Diagnosis	ICD-10-CM
M05.031	Felty's syndrome, right wrist	Diagnosis	ICD-10-CM
M05.032	Felty's syndrome, left wrist	Diagnosis	ICD-10-CM
M05.039	Felty's syndrome, unspecified wrist	Diagnosis	ICD-10-CM
M05.041	Felty's syndrome, right hand	Diagnosis	ICD-10-CM
M05.042	Felty's syndrome, left hand	Diagnosis	ICD-10-CM
M05.049	Felty's syndrome, unspecified hand	Diagnosis	ICD-10-CM
M05.051	Felty's syndrome, right hip	Diagnosis	ICD-10-CM
M05.052	Felty's syndrome, left hip	Diagnosis	ICD-10-CM
M05.059	Felty's syndrome, unspecified hip	Diagnosis	ICD-10-CM
M05.061	Felty's syndrome, right knee	Diagnosis	ICD-10-CM
M05.062	Felty's syndrome, left knee	Diagnosis	ICD-10-CM
M05.069	Felty's syndrome, unspecified knee	Diagnosis	ICD-10-CM
M05.071	Felty's syndrome, right ankle and foot	Diagnosis	ICD-10-CM
M05.072	Felty's syndrome, left ankle and foot	Diagnosis	ICD-10-CM
M05.079	Felty's syndrome, unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.09	Felty's syndrome, multiple sites	Diagnosis	ICD-10-CM
M05.10	Rheumatoid lung disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.111	Rheumatoid lung disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.112	Rheumatoid lung disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.119	Rheumatoid lung disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.121	Rheumatoid lung disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.122	Rheumatoid lung disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.129	Rheumatoid lung disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.131	Rheumatoid lung disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.132	Rheumatoid lung disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.139	Rheumatoid lung disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.141	Rheumatoid lung disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.142	Rheumatoid lung disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.149	Rheumatoid lung disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.151	Rheumatoid lung disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.152	Rheumatoid lung disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.159	Rheumatoid lung disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.161	Rheumatoid lung disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.162	Rheumatoid lung disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.169	Rheumatoid lung disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M05.171	Rheumatoid lung disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.172	Rheumatoid lung disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.179	Rheumatoid lung disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.19	Rheumatoid lung disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.20	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.211	Rheumatoid vasculitis with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.212	Rheumatoid vasculitis with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.219	Rheumatoid vasculitis with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.222	Rheumatoid vasculitis with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.229	Rheumatoid vasculitis with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.231	Rheumatoid vasculitis with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.232	Rheumatoid vasculitis with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.239	Rheumatoid vasculitis with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.241	Rheumatoid vasculitis with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.242	Rheumatoid vasculitis with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.249	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.251	Rheumatoid vasculitis with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.252	Rheumatoid vasculitis with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.259	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.261	Rheumatoid vasculitis with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.262	Rheumatoid vasculitis with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.269	Rheumatoid vasculitis with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.271	Rheumatoid vasculitis with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.272	Rheumatoid vasculitis with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.279	Rheumatoid vasculitis with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.29	Rheumatoid vasculitis with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.30	Rheumatoid heart disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.311	Rheumatoid heart disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.312	Rheumatoid heart disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.319	Rheumatoid heart disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.321	Rheumatoid heart disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.322	Rheumatoid heart disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.329	Rheumatoid heart disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.331	Rheumatoid heart disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.332	Rheumatoid heart disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.339	Rheumatoid heart disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.341	Rheumatoid heart disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.342	Rheumatoid heart disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.349	Rheumatoid heart disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.351	Rheumatoid heart disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.352	Rheumatoid heart disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.359	Rheumatoid heart disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.361	Rheumatoid heart disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M05.362	Rheumatoid heart disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.369	Rheumatoid heart disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.371	Rheumatoid heart disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.372	Rheumatoid heart disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.379	Rheumatoid heart disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.412	Rheumatoid myopathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.419	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.421	Rheumatoid myopathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.422	Rheumatoid myopathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.429	Rheumatoid myopathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.431	Rheumatoid myopathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.432	Rheumatoid myopathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.439	Rheumatoid myopathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.441	Rheumatoid myopathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.442	Rheumatoid myopathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.449	Rheumatoid myopathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.451	Rheumatoid myopathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.452	Rheumatoid myopathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.459	Rheumatoid myopathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.469	Rheumatoid myopathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.472	Rheumatoid myopathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.479	Rheumatoid myopathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.49	Rheumatoid myopathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.50	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.511	Rheumatoid polyneuropathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.512	Rheumatoid polyneuropathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.519	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.521	Rheumatoid polyneuropathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.522	Rheumatoid polyneuropathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.529	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.531	Rheumatoid polyneuropathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.532	Rheumatoid polyneuropathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.539	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.541	Rheumatoid polyneuropathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.542	Rheumatoid polyneuropathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.549	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.551	Rheumatoid polyneuropathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M05.552	Rheumatoid polyneuropathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.559	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.569	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.571	Rheumatoid polyneuropathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.572	Rheumatoid polyneuropathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.579	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.60	Rheumatoid arthritis of unspecified site with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.611	Rheumatoid arthritis of right shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.612	Rheumatoid arthritis of left shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.619	Rheumatoid arthritis of unspecified shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.621	Rheumatoid arthritis of right elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.622	Rheumatoid arthritis of left elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.629	Rheumatoid arthritis of unspecified elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.631	Rheumatoid arthritis of right wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.632	Rheumatoid arthritis of left wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.639	Rheumatoid arthritis of unspecified wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.641	Rheumatoid arthritis of right hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.642	Rheumatoid arthritis of left hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.649	Rheumatoid arthritis of unspecified hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.651	Rheumatoid arthritis of right hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.652	Rheumatoid arthritis of left hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.659	Rheumatoid arthritis of unspecified hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.661	Rheumatoid arthritis of right knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.662	Rheumatoid arthritis of left knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.669	Rheumatoid arthritis of unspecified knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.672	Rheumatoid arthritis of left ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M05.679	Rheumatoid arthritis of unspecified ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.69	Rheumatoid arthritis of multiple sites with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.70	Rheumatoid arthritis with rheumatoid factor of unspecified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.711	Rheumatoid arthritis with rheumatoid factor of right shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.712	Rheumatoid arthritis with rheumatoid factor of left shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.722	Rheumatoid arthritis with rheumatoid factor of left elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.729	Rheumatoid arthritis with rheumatoid factor of unspecified elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.732	Rheumatoid arthritis with rheumatoid factor of left wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.739	Rheumatoid arthritis with rheumatoid factor of unspecified wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.741	Rheumatoid arthritis with rheumatoid factor of right hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.742	Rheumatoid arthritis with rheumatoid factor of left hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.749	Rheumatoid arthritis with rheumatoid factor of unspecified hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement	Diagnosis	ICD-10-CM
M05.7A	Rheumatoid arthritis with rheumatoid factor of other specified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.80	Other rheumatoid arthritis with rheumatoid factor of unspecified site	Diagnosis	ICD-10-CM
M05.811	Other rheumatoid arthritis with rheumatoid factor of right shoulder	Diagnosis	ICD-10-CM
M05.812	Other rheumatoid arthritis with rheumatoid factor of left shoulder	Diagnosis	ICD-10-CM
M05.819	Other rheumatoid arthritis with rheumatoid factor of unspecified shoulder	Diagnosis	ICD-10-CM
M05.821	Other rheumatoid arthritis with rheumatoid factor of right elbow	Diagnosis	ICD-10-CM
M05.822	Other rheumatoid arthritis with rheumatoid factor of left elbow	Diagnosis	ICD-10-CM
M05.829	Other rheumatoid arthritis with rheumatoid factor of unspecified elbow	Diagnosis	ICD-10-CM
M05.831	Other rheumatoid arthritis with rheumatoid factor of right wrist	Diagnosis	ICD-10-CM
M05.832	Other rheumatoid arthritis with rheumatoid factor of left wrist	Diagnosis	ICD-10-CM
M05.839	Other rheumatoid arthritis with rheumatoid factor of unspecified wrist	Diagnosis	ICD-10-CM
M05.841	Other rheumatoid arthritis with rheumatoid factor of right hand	Diagnosis	ICD-10-CM
M05.842	Other rheumatoid arthritis with rheumatoid factor of left hand	Diagnosis	ICD-10-CM
M05.849	Other rheumatoid arthritis with rheumatoid factor of unspecified hand	Diagnosis	ICD-10-CM
M05.851	Other rheumatoid arthritis with rheumatoid factor of right hip	Diagnosis	ICD-10-CM
M05.852	Other rheumatoid arthritis with rheumatoid factor of left hip	Diagnosis	ICD-10-CM
M05.859	Other rheumatoid arthritis with rheumatoid factor of unspecified hip	Diagnosis	ICD-10-CM
M05.861	Other rheumatoid arthritis with rheumatoid factor of right knee	Diagnosis	ICD-10-CM
M05.862	Other rheumatoid arthritis with rheumatoid factor of left knee	Diagnosis	ICD-10-CM
M05.869	Other rheumatoid arthritis with rheumatoid factor of unspecified knee	Diagnosis	ICD-10-CM
M05.871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot	Diagnosis	ICD-10-CM
M05.872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot	Diagnosis	ICD-10-CM
M05.879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites	Diagnosis	ICD-10-CM
M05.8A	Other rheumatoid arthritis with rheumatoid factor of other specified site	Diagnosis	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site	Diagnosis	ICD-10-CM
M06.011	Rheumatoid arthritis without rheumatoid factor, right shoulder	Diagnosis	ICD-10-CM
M06.012	Rheumatoid arthritis without rheumatoid factor, left shoulder	Diagnosis	ICD-10-CM
M06.019	Rheumatoid arthritis without rheumatoid factor, unspecified shoulder	Diagnosis	ICD-10-CM
M06.021	Rheumatoid arthritis without rheumatoid factor, right elbow	Diagnosis	ICD-10-CM
M06.022	Rheumatoid arthritis without rheumatoid factor, left elbow	Diagnosis	ICD-10-CM
M06.029	Rheumatoid arthritis without rheumatoid factor, unspecified elbow	Diagnosis	ICD-10-CM
M06.031	Rheumatoid arthritis without rheumatoid factor, right wrist	Diagnosis	ICD-10-CM
M06.032	Rheumatoid arthritis without rheumatoid factor, left wrist	Diagnosis	ICD-10-CM
M06.039	Rheumatoid arthritis without rheumatoid factor, unspecified wrist	Diagnosis	ICD-10-CM
M06.041	Rheumatoid arthritis without rheumatoid factor, right hand	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M06.042	Rheumatoid arthritis without rheumatoid factor, left hand	Diagnosis	ICD-10-CM
M06.049	Rheumatoid arthritis without rheumatoid factor, unspecified hand	Diagnosis	ICD-10-CM
M06.051	Rheumatoid arthritis without rheumatoid factor, right hip	Diagnosis	ICD-10-CM
M06.052	Rheumatoid arthritis without rheumatoid factor, left hip	Diagnosis	ICD-10-CM
M06.059	Rheumatoid arthritis without rheumatoid factor, unspecified hip	Diagnosis	ICD-10-CM
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee	Diagnosis	ICD-10-CM
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee	Diagnosis	ICD-10-CM
M06.069	Rheumatoid arthritis without rheumatoid factor, unspecified knee	Diagnosis	ICD-10-CM
M06.071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot	Diagnosis	ICD-10-CM
M06.072	Rheumatoid arthritis without rheumatoid factor, left ankle and foot	Diagnosis	ICD-10-CM
M06.079	Rheumatoid arthritis without rheumatoid factor, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.08	Rheumatoid arthritis without rheumatoid factor, vertebrae	Diagnosis	ICD-10-CM
M06.09	Rheumatoid arthritis without rheumatoid factor, multiple sites	Diagnosis	ICD-10-CM
M06.0A	Rheumatoid arthritis without rheumatoid factor, other specified site	Diagnosis	ICD-10-CM
M06.1	Adult-onset Still's disease	Diagnosis	ICD-10-CM
M06.20	Rheumatoid bursitis, unspecified site	Diagnosis	ICD-10-CM
M06.211	Rheumatoid bursitis, right shoulder	Diagnosis	ICD-10-CM
M06.212	Rheumatoid bursitis, left shoulder	Diagnosis	ICD-10-CM
M06.219	Rheumatoid bursitis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.221	Rheumatoid bursitis, right elbow	Diagnosis	ICD-10-CM
M06.222	Rheumatoid bursitis, left elbow	Diagnosis	ICD-10-CM
M06.229	Rheumatoid bursitis, unspecified elbow	Diagnosis	ICD-10-CM
M06.231	Rheumatoid bursitis, right wrist	Diagnosis	ICD-10-CM
M06.232	Rheumatoid bursitis, left wrist	Diagnosis	ICD-10-CM
M06.239	Rheumatoid bursitis, unspecified wrist	Diagnosis	ICD-10-CM
M06.241	Rheumatoid bursitis, right hand	Diagnosis	ICD-10-CM
M06.242	Rheumatoid bursitis, left hand	Diagnosis	ICD-10-CM
M06.249	Rheumatoid bursitis, unspecified hand	Diagnosis	ICD-10-CM
M06.251	Rheumatoid bursitis, right hip	Diagnosis	ICD-10-CM
M06.252	Rheumatoid bursitis, left hip	Diagnosis	ICD-10-CM
M06.259	Rheumatoid bursitis, unspecified hip	Diagnosis	ICD-10-CM
M06.261	Rheumatoid bursitis, right knee	Diagnosis	ICD-10-CM
M06.262	Rheumatoid bursitis, left knee	Diagnosis	ICD-10-CM
M06.269	Rheumatoid bursitis, unspecified knee	Diagnosis	ICD-10-CM
M06.271	Rheumatoid bursitis, right ankle and foot	Diagnosis	ICD-10-CM
M06.272	Rheumatoid bursitis, left ankle and foot	Diagnosis	ICD-10-CM
M06.279	Rheumatoid bursitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.28	Rheumatoid bursitis, vertebrae	Diagnosis	ICD-10-CM
M06.29	Rheumatoid bursitis, multiple sites	Diagnosis	ICD-10-CM
M06.30	Rheumatoid nodule, unspecified site	Diagnosis	ICD-10-CM
M06.311	Rheumatoid nodule, right shoulder	Diagnosis	ICD-10-CM
M06.312	Rheumatoid nodule, left shoulder	Diagnosis	ICD-10-CM
M06.319	Rheumatoid nodule, unspecified shoulder	Diagnosis	ICD-10-CM
M06.321	Rheumatoid nodule, right elbow	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M06.322	Rheumatoid nodule, left elbow	Diagnosis	ICD-10-CM
M06.329	Rheumatoid nodule, unspecified elbow	Diagnosis	ICD-10-CM
M06.331	Rheumatoid nodule, right wrist	Diagnosis	ICD-10-CM
M06.332	Rheumatoid nodule, left wrist	Diagnosis	ICD-10-CM
M06.339	Rheumatoid nodule, unspecified wrist	Diagnosis	ICD-10-CM
M06.341	Rheumatoid nodule, right hand	Diagnosis	ICD-10-CM
M06.342	Rheumatoid nodule, left hand	Diagnosis	ICD-10-CM
M06.349	Rheumatoid nodule, unspecified hand	Diagnosis	ICD-10-CM
M06.351	Rheumatoid nodule, right hip	Diagnosis	ICD-10-CM
M06.352	Rheumatoid nodule, left hip	Diagnosis	ICD-10-CM
M06.359	Rheumatoid nodule, unspecified hip	Diagnosis	ICD-10-CM
M06.361	Rheumatoid nodule, right knee	Diagnosis	ICD-10-CM
M06.362	Rheumatoid nodule, left knee	Diagnosis	ICD-10-CM
M06.369	Rheumatoid nodule, unspecified knee	Diagnosis	ICD-10-CM
M06.371	Rheumatoid nodule, right ankle and foot	Diagnosis	ICD-10-CM
M06.372	Rheumatoid nodule, left ankle and foot	Diagnosis	ICD-10-CM
M06.379	Rheumatoid nodule, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.38	Rheumatoid nodule, vertebrae	Diagnosis	ICD-10-CM
M06.39	Rheumatoid nodule, multiple sites	Diagnosis	ICD-10-CM
M06.80	Other specified rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M06.811	Other specified rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M06.812	Other specified rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M06.819	Other specified rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.821	Other specified rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M06.822	Other specified rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M06.829	Other specified rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M06.831	Other specified rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M06.832	Other specified rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M06.839	Other specified rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M06.841	Other specified rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M06.842	Other specified rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M06.849	Other specified rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M06.851	Other specified rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M06.852	Other specified rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M06.859	Other specified rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M06.861	Other specified rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M06.862	Other specified rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M06.869	Other specified rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M06.871	Other specified rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M06.872	Other specified rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M06.879	Other specified rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.88	Other specified rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M06.89	Other specified rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M06.8A	Other specified rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M06.9	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM
M08.00	Unspecified juvenile rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M08.011	Unspecified juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.012	Unspecified juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.019	Unspecified juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.021	Unspecified juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.022	Unspecified juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.029	Unspecified juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.031	Unspecified juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.032	Unspecified juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.039	Unspecified juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.041	Unspecified juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.042	Unspecified juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.049	Unspecified juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.051	Unspecified juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.052	Unspecified juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.059	Unspecified juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.061	Unspecified juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.062	Unspecified juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.069	Unspecified juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.071	Unspecified juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.072	Unspecified juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.079	Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.08	Unspecified juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.09	Unspecified juvenile rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.0A	Unspecified juvenile rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M08.1	Juvenile ankylosing spondylitis	Diagnosis	ICD-10-CM
M08.20	Juvenile rheumatoid arthritis with systemic onset, unspecified site	Diagnosis	ICD-10-CM
M08.211	Juvenile rheumatoid arthritis with systemic onset, right shoulder	Diagnosis	ICD-10-CM
M08.212	Juvenile rheumatoid arthritis with systemic onset, left shoulder	Diagnosis	ICD-10-CM
M08.219	Juvenile rheumatoid arthritis with systemic onset, unspecified shoulder	Diagnosis	ICD-10-CM
M08.221	Juvenile rheumatoid arthritis with systemic onset, right elbow	Diagnosis	ICD-10-CM
M08.222	Juvenile rheumatoid arthritis with systemic onset, left elbow	Diagnosis	ICD-10-CM
M08.229	Juvenile rheumatoid arthritis with systemic onset, unspecified elbow	Diagnosis	ICD-10-CM
M08.231	Juvenile rheumatoid arthritis with systemic onset, right wrist	Diagnosis	ICD-10-CM
M08.232	Juvenile rheumatoid arthritis with systemic onset, left wrist	Diagnosis	ICD-10-CM
M08.239	Juvenile rheumatoid arthritis with systemic onset, unspecified wrist	Diagnosis	ICD-10-CM
M08.241	Juvenile rheumatoid arthritis with systemic onset, right hand	Diagnosis	ICD-10-CM
M08.242	Juvenile rheumatoid arthritis with systemic onset, left hand	Diagnosis	ICD-10-CM
M08.249	Juvenile rheumatoid arthritis with systemic onset, unspecified hand	Diagnosis	ICD-10-CM
M08.251	Juvenile rheumatoid arthritis with systemic onset, right hip	Diagnosis	ICD-10-CM
M08.252	Juvenile rheumatoid arthritis with systemic onset, left hip	Diagnosis	ICD-10-CM
M08.259	Juvenile rheumatoid arthritis with systemic onset, unspecified hip	Diagnosis	ICD-10-CM
M08.261	Juvenile rheumatoid arthritis with systemic onset, right knee	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M08.262	Juvenile rheumatoid arthritis with systemic onset, left knee	Diagnosis	ICD-10-CM
M08.269	Juvenile rheumatoid arthritis with systemic onset, unspecified knee	Diagnosis	ICD-10-CM
M08.271	Juvenile rheumatoid arthritis with systemic onset, right ankle and foot	Diagnosis	ICD-10-CM
M08.272	Juvenile rheumatoid arthritis with systemic onset, left ankle and foot	Diagnosis	ICD-10-CM
M08.279	Juvenile rheumatoid arthritis with systemic onset, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.28	Juvenile rheumatoid arthritis with systemic onset, vertebrae	Diagnosis	ICD-10-CM
M08.29	Juvenile rheumatoid arthritis with systemic onset, multiple sites	Diagnosis	ICD-10-CM
M08.2A	Juvenile rheumatoid arthritis with systemic onset, other specified site	Diagnosis	ICD-10-CM
M08.3	Juvenile rheumatoid polyarthritis (seronegative)	Diagnosis	ICD-10-CM
M08.40	Pauciarticular juvenile rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.411	Pauciarticular juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.412	Pauciarticular juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.419	Pauciarticular juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.421	Pauciarticular juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.422	Pauciarticular juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.429	Pauciarticular juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.431	Pauciarticular juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.432	Pauciarticular juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.439	Pauciarticular juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.441	Pauciarticular juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.442	Pauciarticular juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.449	Pauciarticular juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.451	Pauciarticular juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.452	Pauciarticular juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.459	Pauciarticular juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.461	Pauciarticular juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.462	Pauciarticular juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.469	Pauciarticular juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.471	Pauciarticular juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.472	Pauciarticular juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.479	Pauciarticular juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.48	Pauciarticular juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.4A	Pauciarticular juvenile rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M08.80	Other juvenile arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.811	Other juvenile arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.812	Other juvenile arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.819	Other juvenile arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.821	Other juvenile arthritis, right elbow	Diagnosis	ICD-10-CM
M08.822	Other juvenile arthritis, left elbow	Diagnosis	ICD-10-CM
M08.829	Other juvenile arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.831	Other juvenile arthritis, right wrist	Diagnosis	ICD-10-CM
M08.832	Other juvenile arthritis, left wrist	Diagnosis	ICD-10-CM
M08.839	Other juvenile arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.841	Other juvenile arthritis, right hand	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M08.842	Other juvenile arthritis, left hand	Diagnosis	ICD-10-CM
M08.849	Other juvenile arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.851	Other juvenile arthritis, right hip	Diagnosis	ICD-10-CM
M08.852	Other juvenile arthritis, left hip	Diagnosis	ICD-10-CM
M08.859	Other juvenile arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.861	Other juvenile arthritis, right knee	Diagnosis	ICD-10-CM
M08.862	Other juvenile arthritis, left knee	Diagnosis	ICD-10-CM
M08.869	Other juvenile arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.871	Other juvenile arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.872	Other juvenile arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.879	Other juvenile arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.88	Other juvenile arthritis, other specified site	Diagnosis	ICD-10-CM
M08.89	Other juvenile arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.90	Juvenile arthritis, unspecified, unspecified site	Diagnosis	ICD-10-CM
M08.911	Juvenile arthritis, unspecified, right shoulder	Diagnosis	ICD-10-CM
M08.912	Juvenile arthritis, unspecified, left shoulder	Diagnosis	ICD-10-CM
M08.919	Juvenile arthritis, unspecified, unspecified shoulder	Diagnosis	ICD-10-CM
M08.921	Juvenile arthritis, unspecified, right elbow	Diagnosis	ICD-10-CM
M08.922	Juvenile arthritis, unspecified, left elbow	Diagnosis	ICD-10-CM
M08.929	Juvenile arthritis, unspecified, unspecified elbow	Diagnosis	ICD-10-CM
M08.931	Juvenile arthritis, unspecified, right wrist	Diagnosis	ICD-10-CM
M08.932	Juvenile arthritis, unspecified, left wrist	Diagnosis	ICD-10-CM
M08.939	Juvenile arthritis, unspecified, unspecified wrist	Diagnosis	ICD-10-CM
M08.941	Juvenile arthritis, unspecified, right hand	Diagnosis	ICD-10-CM
M08.942	Juvenile arthritis, unspecified, left hand	Diagnosis	ICD-10-CM
M08.949	Juvenile arthritis, unspecified, unspecified hand	Diagnosis	ICD-10-CM
M08.951	Juvenile arthritis, unspecified, right hip	Diagnosis	ICD-10-CM
M08.952	Juvenile arthritis, unspecified, left hip	Diagnosis	ICD-10-CM
M08.959	Juvenile arthritis, unspecified, unspecified hip	Diagnosis	ICD-10-CM
M08.961	Juvenile arthritis, unspecified, right knee	Diagnosis	ICD-10-CM
M08.962	Juvenile arthritis, unspecified, left knee	Diagnosis	ICD-10-CM
M08.969	Juvenile arthritis, unspecified, unspecified knee	Diagnosis	ICD-10-CM
M08.971	Juvenile arthritis, unspecified, right ankle and foot	Diagnosis	ICD-10-CM
M08.972	Juvenile arthritis, unspecified, left ankle and foot	Diagnosis	ICD-10-CM
M08.979	Juvenile arthritis, unspecified, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.98	Juvenile arthritis, unspecified, vertebrae	Diagnosis	ICD-10-CM
M08.99	Juvenile arthritis, unspecified, multiple sites	Diagnosis	ICD-10-CM
M08.9A	Juvenile arthritis, unspecified, other specified site	Diagnosis	ICD-10-CM
M15.0	Primary generalized (osteo)arthritis	Diagnosis	ICD-10-CM
M15.1	Heberden's nodes (with arthropathy)	Diagnosis	ICD-10-CM
M15.2	Bouchard's nodes (with arthropathy)	Diagnosis	ICD-10-CM
M15.3	Secondary multiple arthritis	Diagnosis	ICD-10-CM
M15.4	Erosive (osteo)arthritis	Diagnosis	ICD-10-CM
M15.8	Other polyosteoarthritis	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M15.9	Polyosteoarthritis, unspecified	Diagnosis	ICD-10-CM
M16.0	Bilateral primary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.10	Unilateral primary osteoarthritis, unspecified hip	Diagnosis	ICD-10-CM
M16.11	Unilateral primary osteoarthritis, right hip	Diagnosis	ICD-10-CM
M16.12	Unilateral primary osteoarthritis, left hip	Diagnosis	ICD-10-CM
M16.2	Bilateral osteoarthritis resulting from hip dysplasia	Diagnosis	ICD-10-CM
M16.30	Unilateral osteoarthritis resulting from hip dysplasia, unspecified hip	Diagnosis	ICD-10-CM
M16.31	Unilateral osteoarthritis resulting from hip dysplasia, right hip	Diagnosis	ICD-10-CM
M16.32	Unilateral osteoarthritis resulting from hip dysplasia, left hip	Diagnosis	ICD-10-CM
M16.4	Bilateral post-traumatic osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.50	Unilateral post-traumatic osteoarthritis, unspecified hip	Diagnosis	ICD-10-CM
M16.51	Unilateral post-traumatic osteoarthritis, right hip	Diagnosis	ICD-10-CM
M16.52	Unilateral post-traumatic osteoarthritis, left hip	Diagnosis	ICD-10-CM
M16.6	Other bilateral secondary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.7	Other unilateral secondary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.9	Osteoarthritis of hip, unspecified	Diagnosis	ICD-10-CM
M17.0	Bilateral primary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.10	Unilateral primary osteoarthritis, unspecified knee	Diagnosis	ICD-10-CM
M17.11	Unilateral primary osteoarthritis, right knee	Diagnosis	ICD-10-CM
M17.12	Unilateral primary osteoarthritis, left knee	Diagnosis	ICD-10-CM
M17.2	Bilateral post-traumatic osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.30	Unilateral post-traumatic osteoarthritis, unspecified knee	Diagnosis	ICD-10-CM
M17.31	Unilateral post-traumatic osteoarthritis, right knee	Diagnosis	ICD-10-CM
M17.32	Unilateral post-traumatic osteoarthritis, left knee	Diagnosis	ICD-10-CM
M17.4	Other bilateral secondary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.5	Other unilateral secondary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.9	Osteoarthritis of knee, unspecified	Diagnosis	ICD-10-CM
M18.0	Bilateral primary osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.10	Unilateral primary osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.11	Unilateral primary osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.12	Unilateral primary osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.2	Bilateral post-traumatic osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.30	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.31	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.32	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.4	Other bilateral secondary osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.50	Other unilateral secondary osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.51	Other unilateral secondary osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.52	Other unilateral secondary osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.9	Osteoarthritis of first carpometacarpal joint, unspecified	Diagnosis	ICD-10-CM
M19.011	Primary osteoarthritis, right shoulder	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M19.012	Primary osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.019	Primary osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.021	Primary osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.022	Primary osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.029	Primary osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.031	Primary osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.032	Primary osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.039	Primary osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.041	Primary osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.042	Primary osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.049	Primary osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.071	Primary osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM
M19.072	Primary osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.079	Primary osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.09	Primary osteoarthritis, other specified site	Diagnosis	ICD-10-CM
M19.111	Post-traumatic osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.112	Post-traumatic osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.119	Post-traumatic osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.121	Post-traumatic osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.122	Post-traumatic osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.129	Post-traumatic osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.131	Post-traumatic osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.132	Post-traumatic osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.139	Post-traumatic osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.141	Post-traumatic osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.142	Post-traumatic osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.149	Post-traumatic osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.171	Post-traumatic osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM
M19.172	Post-traumatic osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.179	Post-traumatic osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.19	Post-traumatic osteoarthritis, other specified site	Diagnosis	ICD-10-CM
M19.211	Secondary osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.212	Secondary osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.219	Secondary osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.221	Secondary osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.222	Secondary osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.229	Secondary osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.231	Secondary osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.232	Secondary osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.239	Secondary osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.241	Secondary osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.242	Secondary osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.249	Secondary osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.271	Secondary osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M19.272	Secondary osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.279	Secondary osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.29	Secondary osteoarthritis, other specified site	Diagnosis	ICD-10-CM
M19.90	Unspecified osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.91	Primary osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.92	Post-traumatic osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.93	Secondary osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M45.0	Ankylosing spondylitis of multiple sites in spine	Diagnosis	ICD-10-CM
M45.1	Ankylosing spondylitis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M45.2	Ankylosing spondylitis of cervical region	Diagnosis	ICD-10-CM
M45.3	Ankylosing spondylitis of cervicothoracic region	Diagnosis	ICD-10-CM
M45.4	Ankylosing spondylitis of thoracic region	Diagnosis	ICD-10-CM
M45.5	Ankylosing spondylitis of thoracolumbar region	Diagnosis	ICD-10-CM
M45.6	Ankylosing spondylitis lumbar region	Diagnosis	ICD-10-CM
M45.7	Ankylosing spondylitis of lumbosacral region	Diagnosis	ICD-10-CM
M45.8	Ankylosing spondylitis sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M45.9	Ankylosing spondylitis of unspecified sites in spine	Diagnosis	ICD-10-CM
M45.A0	Non-radiographic axial spondyloarthritis of unspecified sites in spine	Diagnosis	ICD-10-CM
M45.A1	Non-radiographic axial spondyloarthritis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M45.A2	Non-radiographic axial spondyloarthritis of cervical region	Diagnosis	ICD-10-CM
M45.A3	Non-radiographic axial spondyloarthritis of cervicothoracic region	Diagnosis	ICD-10-CM
M45.A4	Non-radiographic axial spondyloarthritis of thoracic region	Diagnosis	ICD-10-CM
M45.A5	Non-radiographic axial spondyloarthritis of thoracolumbar region	Diagnosis	ICD-10-CM
M45.A6	Non-radiographic axial spondyloarthritis of lumbar region	Diagnosis	ICD-10-CM
M45.A7	Non-radiographic axial spondyloarthritis of lumbosacral region	Diagnosis	ICD-10-CM
M45.A8	Non-radiographic axial spondyloarthritis of sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M45.AB	Non-radiographic axial spondyloarthritis of multiple sites in spine	Diagnosis	ICD-10-CM
M46.80	Other specified inflammatory spondylopathies, site unspecified	Diagnosis	ICD-10-CM
M46.81	Other specified inflammatory spondylopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.82	Other specified inflammatory spondylopathies, cervical region	Diagnosis	ICD-10-CM
M46.83	Other specified inflammatory spondylopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M46.84	Other specified inflammatory spondylopathies, thoracic region	Diagnosis	ICD-10-CM
M46.85	Other specified inflammatory spondylopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M46.86	Other specified inflammatory spondylopathies, lumbar region	Diagnosis	ICD-10-CM
M46.87	Other specified inflammatory spondylopathies, lumbosacral region	Diagnosis	ICD-10-CM
M46.88	Other specified inflammatory spondylopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.89	Other specified inflammatory spondylopathies, multiple sites in spine	Diagnosis	ICD-10-CM
M46.90	Unspecified inflammatory spondylopathy, site unspecified	Diagnosis	ICD-10-CM
M46.91	Unspecified inflammatory spondylopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.92	Unspecified inflammatory spondylopathy, cervical region	Diagnosis	ICD-10-CM
M46.93	Unspecified inflammatory spondylopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M46.94	Unspecified inflammatory spondylopathy, thoracic region	Diagnosis	ICD-10-CM
M46.95	Unspecified inflammatory spondylopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M46.96	Unspecified inflammatory spondylopathy, lumbar region	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M46.97	Unspecified inflammatory spondylopathy, lumbosacral region	Diagnosis	ICD-10-CM
M46.98	Unspecified inflammatory spondylopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.99	Unspecified inflammatory spondylopathy, multiple sites in spine	Diagnosis	ICD-10-CM
M47.011	Anterior spinal artery compression syndromes, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.012	Anterior spinal artery compression syndromes, cervical region	Diagnosis	ICD-10-CM
M47.013	Anterior spinal artery compression syndromes, cervicothoracic region	Diagnosis	ICD-10-CM
M47.014	Anterior spinal artery compression syndromes, thoracic region	Diagnosis	ICD-10-CM
M47.015	Anterior spinal artery compression syndromes, thoracolumbar region	Diagnosis	ICD-10-CM
M47.016	Anterior spinal artery compression syndromes, lumbar region	Diagnosis	ICD-10-CM
M47.019	Anterior spinal artery compression syndromes, site unspecified	Diagnosis	ICD-10-CM
M47.021	Vertebral artery compression syndromes, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.022	Vertebral artery compression syndromes, cervical region	Diagnosis	ICD-10-CM
M47.029	Vertebral artery compression syndromes, site unspecified	Diagnosis	ICD-10-CM
M47.10	Other spondylosis with myelopathy, site unspecified	Diagnosis	ICD-10-CM
M47.11	Other spondylosis with myelopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.12	Other spondylosis with myelopathy, cervical region	Diagnosis	ICD-10-CM
M47.13	Other spondylosis with myelopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.14	Other spondylosis with myelopathy, thoracic region	Diagnosis	ICD-10-CM
M47.15	Other spondylosis with myelopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.16	Other spondylosis with myelopathy, lumbar region	Diagnosis	ICD-10-CM
M47.20	Other spondylosis with radiculopathy, site unspecified	Diagnosis	ICD-10-CM
M47.21	Other spondylosis with radiculopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.22	Other spondylosis with radiculopathy, cervical region	Diagnosis	ICD-10-CM
M47.23	Other spondylosis with radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.24	Other spondylosis with radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M47.25	Other spondylosis with radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.26	Other spondylosis with radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M47.27	Other spondylosis with radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M47.28	Other spondylosis with radiculopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.811	Spondylosis without myelopathy or radiculopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.812	Spondylosis without myelopathy or radiculopathy, cervical region	Diagnosis	ICD-10-CM
M47.813	Spondylosis without myelopathy or radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.814	Spondylosis without myelopathy or radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M47.815	Spondylosis without myelopathy or radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.816	Spondylosis without myelopathy or radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M47.817	Spondylosis without myelopathy or radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M47.818	Spondylosis without myelopathy or radiculopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.819	Spondylosis without myelopathy or radiculopathy, site unspecified	Diagnosis	ICD-10-CM
M47.891	Other spondylosis, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.892	Other spondylosis, cervical region	Diagnosis	ICD-10-CM
M47.893	Other spondylosis, cervicothoracic region	Diagnosis	ICD-10-CM
M47.894	Other spondylosis, thoracic region	Diagnosis	ICD-10-CM
M47.895	Other spondylosis, thoracolumbar region	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M47.896	Other spondylosis, lumbar region	Diagnosis	ICD-10-CM
M47.897	Other spondylosis, lumbosacral region	Diagnosis	ICD-10-CM
M47.898	Other spondylosis, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.899	Other spondylosis, site unspecified	Diagnosis	ICD-10-CM
M47.9	Spondylosis, unspecified	Diagnosis	ICD-10-CM
M48.8X1	Other specified spondylopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M48.8X2	Other specified spondylopathies, cervical region	Diagnosis	ICD-10-CM
M48.8X3	Other specified spondylopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M48.8X4	Other specified spondylopathies, thoracic region	Diagnosis	ICD-10-CM
M48.8X5	Other specified spondylopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M48.8X6	Other specified spondylopathies, lumbar region	Diagnosis	ICD-10-CM
M48.8X7	Other specified spondylopathies, lumbosacral region	Diagnosis	ICD-10-CM
M48.8X8	Other specified spondylopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M48.8X9	Other specified spondylopathies, site unspecified	Diagnosis	ICD-10-CM
	Stroke/TIA: Inclusion		
G45.0	Vertebro-basilar artery syndrome	Diagnosis	ICD-10-CM
G45.1	Carotid artery syndrome (hemispheric)	Diagnosis	ICD-10-CM
G45.2	Multiple and bilateral precerebral artery syndromes	Diagnosis	ICD-10-CM
G45.3	Amaurosis fugax	Diagnosis	ICD-10-CM
G45.8	Other transient cerebral ischemic attacks and related syndromes	Diagnosis	ICD-10-CM
G45.9	Transient cerebral ischemic attack, unspecified	Diagnosis	ICD-10-CM
G46.0	Middle cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.1	Anterior cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.2	Posterior cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.3	Brain stem stroke syndrome	Diagnosis	ICD-10-CM
G46.4	Cerebellar stroke syndrome	Diagnosis	ICD-10-CM
G46.5	Pure motor lacunar syndrome	Diagnosis	ICD-10-CM
G46.6	Pure sensory lacunar syndrome	Diagnosis	ICD-10-CM
G46.7	Other lacunar syndromes	Diagnosis	ICD-10-CM
G46.8	Other vascular syndromes of brain in cerebrovascular diseases	Diagnosis	ICD-10-CM
G97.31	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating a nervous system procedure	Diagnosis	ICD-10-CM
G97.32	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating other procedure	Diagnosis	ICD-10-CM
I60.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I60.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	Diagnosis	ICD-10-CM
I60.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	Diagnosis	ICD-10-CM
I60.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I60.20	Nontraumatic subarachnoid hemorrhage from unspecified anterior communicating artery	Diagnosis	ICD-10-CM
I60.21	Nontraumatic subarachnoid hemorrhage from right anterior communicating artery	Diagnosis	ICD-10-CM
I60.22	Nontraumatic subarachnoid hemorrhage from left anterior communicating artery	Diagnosis	ICD-10-CM
I60.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	Diagnosis	ICD-10-CM
I60.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	Diagnosis	ICD-10-CM
I60.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	Diagnosis	ICD-10-CM
I60.4	Nontraumatic subarachnoid hemorrhage from basilar artery	Diagnosis	ICD-10-CM
I60.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	Diagnosis	ICD-10-CM
I60.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	Diagnosis	ICD-10-CM
I60.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	Diagnosis	ICD-10-CM
I60.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	Diagnosis	ICD-10-CM
I60.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	Diagnosis	ICD-10-CM
I60.8	Other nontraumatic subarachnoid hemorrhage	Diagnosis	ICD-10-CM
I60.9	Nontraumatic subarachnoid hemorrhage, unspecified	Diagnosis	ICD-10-CM
I61.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	Diagnosis	ICD-10-CM
I61.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	Diagnosis	ICD-10-CM
I61.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	Diagnosis	ICD-10-CM
I61.3	Nontraumatic intracerebral hemorrhage in brain stem	Diagnosis	ICD-10-CM
I61.4	Nontraumatic intracerebral hemorrhage in cerebellum	Diagnosis	ICD-10-CM
I61.5	Nontraumatic intracerebral hemorrhage, intraventricular	Diagnosis	ICD-10-CM
I61.6	Nontraumatic intracerebral hemorrhage, multiple localized	Diagnosis	ICD-10-CM
I61.8	Other nontraumatic intracerebral hemorrhage	Diagnosis	ICD-10-CM
I61.9	Nontraumatic intracerebral hemorrhage, unspecified	Diagnosis	ICD-10-CM
I62.00	Nontraumatic subdural hemorrhage, unspecified	Diagnosis	ICD-10-CM
I62.01	Nontraumatic acute subdural hemorrhage	Diagnosis	ICD-10-CM
I62.02	Nontraumatic subacute subdural hemorrhage	Diagnosis	ICD-10-CM
I62.9	Nontraumatic intracranial hemorrhage, unspecified	Diagnosis	ICD-10-CM
I63.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	Diagnosis	ICD-10-CM
I63.011	Cerebral infarction due to thrombosis of right vertebral artery	Diagnosis	ICD-10-CM
I63.012	Cerebral infarction due to thrombosis of left vertebral artery	Diagnosis	ICD-10-CM
I63.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.02	Cerebral infarction due to thrombosis of basilar artery	Diagnosis	ICD-10-CM
I63.031	Cerebral infarction due to thrombosis of right carotid artery	Diagnosis	ICD-10-CM
I63.032	Cerebral infarction due to thrombosis of left carotid artery	Diagnosis	ICD-10-CM
I63.033	Cerebral infarction due to thrombosis of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.039	Cerebral infarction due to thrombosis of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.09	Cerebral infarction due to thrombosis of other precerebral artery	Diagnosis	ICD-10-CM
I63.10	Cerebral infarction due to embolism of unspecified precerebral artery	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I63.111	Cerebral infarction due to embolism of right vertebral artery	Diagnosis	ICD-10-CM
I63.112	Cerebral infarction due to embolism of left vertebral artery	Diagnosis	ICD-10-CM
I63.113	Cerebral infarction due to embolism of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.119	Cerebral infarction due to embolism of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.12	Cerebral infarction due to embolism of basilar artery	Diagnosis	ICD-10-CM
I63.131	Cerebral infarction due to embolism of right carotid artery	Diagnosis	ICD-10-CM
I63.132	Cerebral infarction due to embolism of left carotid artery	Diagnosis	ICD-10-CM
I63.133	Cerebral infarction due to embolism of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.139	Cerebral infarction due to embolism of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.19	Cerebral infarction due to embolism of other precerebral artery	Diagnosis	ICD-10-CM
I63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	Diagnosis	ICD-10-CM
I63.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery	Diagnosis	ICD-10-CM
I63.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery	Diagnosis	ICD-10-CM
I63.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	Diagnosis	ICD-10-CM
I63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	Diagnosis	ICD-10-CM
I63.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	Diagnosis	ICD-10-CM
I63.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries	Diagnosis	ICD-10-CM
I63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.311	Cerebral infarction due to thrombosis of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.312	Cerebral infarction due to thrombosis of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.321	Cerebral infarction due to thrombosis of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.322	Cerebral infarction due to thrombosis of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.323	Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.331	Cerebral infarction due to thrombosis of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.332	Cerebral infarction due to thrombosis of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.333	Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I63.341	Cerebral infarction due to thrombosis of right cerebellar artery	Diagnosis	ICD-10-CM
I63.342	Cerebral infarction due to thrombosis of left cerebellar artery	Diagnosis	ICD-10-CM
I63.343	Cerebral infarction due to thrombosis of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.39	Cerebral infarction due to thrombosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.411	Cerebral infarction due to embolism of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.412	Cerebral infarction due to embolism of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.421	Cerebral infarction due to embolism of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.422	Cerebral infarction due to embolism of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.431	Cerebral infarction due to embolism of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.432	Cerebral infarction due to embolism of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I63.441	Cerebral infarction due to embolism of right cerebellar artery	Diagnosis	ICD-10-CM
I63.442	Cerebral infarction due to embolism of left cerebellar artery	Diagnosis	ICD-10-CM
I63.443	Cerebral infarction due to embolism of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.449	Cerebral infarction due to embolism of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.49	Cerebral infarction due to embolism of other cerebral artery	Diagnosis	ICD-10-CM
I63.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I63.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	Diagnosis	ICD-10-CM
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	Diagnosis	ICD-10-CM
I63.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	Diagnosis	ICD-10-CM
I63.8	Other cerebral infarction	Diagnosis	ICD-10-CM
I63.81	Other cerebral infarction due to occlusion or stenosis of small artery	Diagnosis	ICD-10-CM
I63.89	Other cerebral infarction	Diagnosis	ICD-10-CM
I63.9	Cerebral infarction, unspecified	Diagnosis	ICD-10-CM
I67.841	Reversible cerebrovascular vasoconstriction syndrome	Diagnosis	ICD-10-CM
I67.848	Other cerebrovascular vasospasm and vasoconstriction	Diagnosis	ICD-10-CM
I67.89	Other cerebrovascular disease	Diagnosis	ICD-10-CM
I97.810	Intraoperative cerebrovascular infarction during cardiac surgery	Diagnosis	ICD-10-CM
I97.811	Intraoperative cerebrovascular infarction during other surgery	Diagnosis	ICD-10-CM
I97.820	Postprocedural cerebrovascular infarction following cardiac surgery	Diagnosis	ICD-10-CM
I97.821	Postprocedural cerebrovascular infarction following other surgery	Diagnosis	ICD-10-CM
	Stroke/TIA: Exclusion		
S06.340A	Traumatic hemorrhage of right cerebrum without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.341A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.342A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.343A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.344A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.345A	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.346A	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S06.347A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.348A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.349A	Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.34AA	Traumatic hemorrhage of right cerebrum with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.350A	Traumatic hemorrhage of left cerebrum without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.351A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.352A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.353A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.354A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.355A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.356A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.357A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.358A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.359A	Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.35AA	Traumatic hemorrhage of left cerebrum with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.360A	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.361A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.362A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.363A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S06.364A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.365A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.366A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.367A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.368A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.369A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.36AA	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.370A	Contusion, laceration, and hemorrhage of cerebellum without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.371A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.372A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.373A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.374A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.375A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.376A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.377A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.378A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.379A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.37AA	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S06.380A	Contusion, laceration, and hemorrhage of brainstem without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.381A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.382A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.383A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.384A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.385A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.386A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.387A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.388A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.389A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.38AA	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.5X0A	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.5X1A	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.5X2A	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.5X3A	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.5X4A	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.5X5A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.5X6A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.5X7A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.5X8A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S06.5X9A	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.5XAA	Traumatic subdural hemorrhage with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.6X0A	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.6X1A	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.6X2A	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.6X3A	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.6X4A	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.6X5A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.6X6A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.6X7A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.6X8A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.6X9A	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.6XAA	Traumatic subarachnoid hemorrhage with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.810A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.811A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.812A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.813A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.814A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.815A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S06.816A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.817A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.818A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.819A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.81AA	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.820A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.821A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.822A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.823A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.824A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.825A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.826A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.827A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.828A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.829A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.82AA	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.890A	Other specified intracranial injury without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.891A	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S06.892A	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.893A	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.894A	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.895A	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.896A	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.897A	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.898A	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.899A	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.89AA	Other specified intracranial injury with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.9X0A	Unspecified intracranial injury without loss of consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.9X1A	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	Diagnosis	ICD-10-CM
S06.9X2A	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.9X3A	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	Diagnosis	ICD-10-CM
S06.9X4A	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	Diagnosis	ICD-10-CM
S06.9X5A	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	Diagnosis	ICD-10-CM
S06.9X6A	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	Diagnosis	ICD-10-CM
S06.9X7A	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.9X8A	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	Diagnosis	ICD-10-CM
S06.9X9A	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	Diagnosis	ICD-10-CM
S06.9XAA	Unspecified intracranial injury with loss of consciousness status unknown, initial encounter	Diagnosis	ICD-10-CM
S06.A0XA	Traumatic brain compression without herniation, initial encounter	Diagnosis	ICD-10-CM
S06.A1XA	Traumatic brain compression with herniation, initial encounter	Diagnosis	ICD-10-CM
	Anemia		

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Code	Description	Code Category	Code Type
C94.6	Myelodysplastic disease, not classified	Diagnosis	ICD-10-CM
D46.0	Refractory anemia without ring sideroblasts, so stated	Diagnosis	ICD-10-CM
D46.1	Refractory anemia with ring sideroblasts	Diagnosis	ICD-10-CM
D46.20	Refractory anemia with excess of blasts, unspecified	Diagnosis	ICD-10-CM
D46.21	Refractory anemia with excess of blasts 1	Diagnosis	ICD-10-CM
D46.22	Refractory anemia with excess of blasts 2	Diagnosis	ICD-10-CM
D46.4	Refractory anemia, unspecified	Diagnosis	ICD-10-CM
D46.9	Myelodysplastic syndrome, unspecified	Diagnosis	ICD-10-CM
D46.A	Refractory cytopenia with multilineage dysplasia	Diagnosis	ICD-10-CM
D46.B	Refractory cytopenia with multilineage dysplasia and ring sideroblasts	Diagnosis	ICD-10-CM
D46.C	Myelodysplastic syndrome with isolated del(5q) chromosomal abnormality	Diagnosis	ICD-10-CM
D46.Z	Other myelodysplastic syndromes	Diagnosis	ICD-10-CM
D47.4	Osteomyelofibrosis	Diagnosis	ICD-10-CM
D50.0	Iron deficiency anemia secondary to blood loss (chronic)	Diagnosis	ICD-10-CM
D50.1	Sideropenic dysphagia	Diagnosis	ICD-10-CM
D50.8	Other iron deficiency anemias	Diagnosis	ICD-10-CM
D50.9	Iron deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D51.0	Vitamin B12 deficiency anemia due to intrinsic factor deficiency	Diagnosis	ICD-10-CM
D51.1	Vitamin B12 deficiency anemia due to selective vitamin B12 malabsorption with proteinuria	Diagnosis	ICD-10-CM
D51.2	Transcobalamin II deficiency	Diagnosis	ICD-10-CM
D51.3	Other dietary vitamin B12 deficiency anemia	Diagnosis	ICD-10-CM
D51.8	Other vitamin B12 deficiency anemias	Diagnosis	ICD-10-CM
D51.9	Vitamin B12 deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D52.0	Dietary folate deficiency anemia	Diagnosis	ICD-10-CM
D52.1	Drug-induced folate deficiency anemia	Diagnosis	ICD-10-CM
D52.8	Other folate deficiency anemias	Diagnosis	ICD-10-CM
D52.9	Folate deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D53.0	Protein deficiency anemia	Diagnosis	ICD-10-CM
D53.1	Other megaloblastic anemias, not elsewhere classified	Diagnosis	ICD-10-CM
D53.2	Scorbutic anemia	Diagnosis	ICD-10-CM
D53.8	Other specified nutritional anemias	Diagnosis	ICD-10-CM
D53.9	Nutritional anemia, unspecified	Diagnosis	ICD-10-CM
D55.0	Anemia due to glucose-6-phosphate dehydrogenase [G6PD] deficiency	Diagnosis	ICD-10-CM
D55.1	Anemia due to other disorders of glutathione metabolism	Diagnosis	ICD-10-CM
D55.2	Anemia due to disorders of glycolytic enzymes	Diagnosis	ICD-10-CM
D55.21	Anemia due to pyruvate kinase deficiency	Diagnosis	ICD-10-CM
D55.29	Anemia due to other disorders of glycolytic enzymes	Diagnosis	ICD-10-CM
D55.3	Anemia due to disorders of nucleotide metabolism	Diagnosis	ICD-10-CM
D55.8	Other anemias due to enzyme disorders	Diagnosis	ICD-10-CM
D55.9	Anemia due to enzyme disorder, unspecified	Diagnosis	ICD-10-CM
D56.0	Alpha thalassemia	Diagnosis	ICD-10-CM
D56.1	Beta thalassemia	Diagnosis	ICD-10-CM
D56.2	Delta-beta thalassemia	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
D56.3	Thalassemia minor	Diagnosis	ICD-10-CM
D56.4	Hereditary persistence of fetal hemoglobin [HPFH]	Diagnosis	ICD-10-CM
D56.5	Hemoglobin E-beta thalassemia	Diagnosis	ICD-10-CM
D56.8	Other thalassemias	Diagnosis	ICD-10-CM
D56.9	Thalassemia, unspecified	Diagnosis	ICD-10-CM
D57.00	Hb-SS disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.01	Hb-SS disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.02	Hb-SS disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.03	Hb-SS disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.04	Hb-SS disease with dactylitis	Diagnosis	ICD-10-CM
D57.09	Hb-SS disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.1	Sickle-cell disease without crisis	Diagnosis	ICD-10-CM
D57.20	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-10-CM
D57.211	Sickle-cell/Hb-C disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.212	Sickle-cell/Hb-C disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.213	Sickle-cell/Hb-C disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.214	Sickle-cell/Hb-C disease with dactylitis	Diagnosis	ICD-10-CM
D57.218	Sickle-cell/Hb-C disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.3	Sickle-cell trait	Diagnosis	ICD-10-CM
D57.40	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D57.411	Sickle-cell thalassemia, unspecified, with acute chest syndrome	Diagnosis	ICD-10-CM
D57.412	Sickle-cell thalassemia, unspecified, with splenic sequestration	Diagnosis	ICD-10-CM
D57.413	Sickle-cell thalassemia, unspecified, with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.414	Sickle-cell thalassemia, unspecified, with dactylitis	Diagnosis	ICD-10-CM
D57.418	Sickle-cell thalassemia, unspecified, with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.419	Sickle-cell thalassemia, unspecified, with crisis	Diagnosis	ICD-10-CM
D57.42	Sickle-cell thalassemia beta zero without crisis	Diagnosis	ICD-10-CM
D57.431	Sickle-cell thalassemia beta zero with acute chest syndrome	Diagnosis	ICD-10-CM
D57.432	Sickle-cell thalassemia beta zero with splenic sequestration	Diagnosis	ICD-10-CM
D57.433	Sickle-cell thalassemia beta zero with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.434	Sickle-cell thalassemia beta zero with dactylitis	Diagnosis	ICD-10-CM
D57.438	Sickle-cell thalassemia beta zero with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.439	Sickle-cell thalassemia beta zero with crisis, unspecified	Diagnosis	ICD-10-CM
D57.44	Sickle-cell thalassemia beta plus without crisis	Diagnosis	ICD-10-CM
D57.451	Sickle-cell thalassemia beta plus with acute chest syndrome	Diagnosis	ICD-10-CM
D57.452	Sickle-cell thalassemia beta plus with splenic sequestration	Diagnosis	ICD-10-CM
D57.453	Sickle-cell thalassemia beta plus with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.454	Sickle-cell thalassemia beta plus with dactylitis	Diagnosis	ICD-10-CM
D57.458	Sickle-cell thalassemia beta plus with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.459	Sickle-cell thalassemia beta plus with crisis, unspecified	Diagnosis	ICD-10-CM
D57.80	Other sickle-cell disorders without crisis	Diagnosis	ICD-10-CM
D57.811	Other sickle-cell disorders with acute chest syndrome	Diagnosis	ICD-10-CM
D57.812	Other sickle-cell disorders with splenic sequestration	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
D57.813	Other sickle-cell disorders with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.814	Other sickle-cell disorders with dactylitis	Diagnosis	ICD-10-CM
D57.818	Other sickle-cell disorders with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM
D58.0	Hereditary spherocytosis	Diagnosis	ICD-10-CM
D58.1	Hereditary elliptocytosis	Diagnosis	ICD-10-CM
D58.2	Other hemoglobinopathies	Diagnosis	ICD-10-CM
D58.8	Other specified hereditary hemolytic anemias	Diagnosis	ICD-10-CM
D58.9	Hereditary hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D59.0	Drug-induced autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.1	Other autoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D59.10	Autoimmune hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D59.11	Warm autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.12	Cold autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.13	Mixed type autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.19	Other autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.2	Drug-induced nonautoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.3	Hemolytic-uremic syndrome	Diagnosis	ICD-10-CM
D59.30	Hemolytic-uremic syndrome, unspecified	Diagnosis	ICD-10-CM
D59.31	Infection-associated hemolytic-uremic syndrome	Diagnosis	ICD-10-CM
D59.32	Hereditary hemolytic-uremic syndrome	Diagnosis	ICD-10-CM
D59.39	Other hemolytic-uremic syndrome	Diagnosis	ICD-10-CM
D59.4	Other nonautoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D59.5	Paroxysmal nocturnal hemoglobinuria [Marchiafava-Micheli]	Diagnosis	ICD-10-CM
D59.6	Hemoglobinuria due to hemolysis from other external causes	Diagnosis	ICD-10-CM
D59.8	Other acquired hemolytic anemias	Diagnosis	ICD-10-CM
D59.9	Acquired hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D60.0	Chronic acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D60.1	Transient acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D60.8	Other acquired pure red cell aplasias	Diagnosis	ICD-10-CM
D60.9	Acquired pure red cell aplasia, unspecified	Diagnosis	ICD-10-CM
D61.01	Constitutional (pure) red blood cell aplasia	Diagnosis	ICD-10-CM
D61.02	Shwachman-Diamond syndrome	Diagnosis	ICD-10-CM
D61.03	Fanconi anemia	Diagnosis	ICD-10-CM
D61.09	Other constitutional aplastic anemia	Diagnosis	ICD-10-CM
D61.1	Drug-induced aplastic anemia	Diagnosis	ICD-10-CM
D61.2	Aplastic anemia due to other external agents	Diagnosis	ICD-10-CM
D61.3	Idiopathic aplastic anemia	Diagnosis	ICD-10-CM
D61.810	Antineoplastic chemotherapy induced pancytopenia	Diagnosis	ICD-10-CM
D61.811	Other drug-induced pancytopenia	Diagnosis	ICD-10-CM
D61.818	Other pancytopenia	Diagnosis	ICD-10-CM
D61.82	Myelophthisis	Diagnosis	ICD-10-CM
D61.89	Other specified aplastic anemias and other bone marrow failure syndromes	Diagnosis	ICD-10-CM
D61.9	Aplastic anemia, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
D63.0	Anemia in neoplastic disease	Diagnosis	ICD-10-CM
D63.1	Anemia in chronic kidney disease	Diagnosis	ICD-10-CM
D63.8	Anemia in other chronic diseases classified elsewhere	Diagnosis	ICD-10-CM
D64.0	Hereditary sideroblastic anemia	Diagnosis	ICD-10-CM
D64.1	Secondary sideroblastic anemia due to disease	Diagnosis	ICD-10-CM
D64.2	Secondary sideroblastic anemia due to drugs and toxins	Diagnosis	ICD-10-CM
D64.3	Other sideroblastic anemias	Diagnosis	ICD-10-CM
D64.4	Congenital dyserythropoietic anemia	Diagnosis	ICD-10-CM
D64.81	Anemia due to antineoplastic chemotherapy	Diagnosis	ICD-10-CM
D64.89	Other specified anemias	Diagnosis	ICD-10-CM
D64.9	Anemia, unspecified	Diagnosis	ICD-10-CM
D75.81	Myelofibrosis	Diagnosis	ICD-10-CM
	Benign Prostatic Hyperplasia: Inclusion		
N40.0	Benign prostatic hyperplasia without lower urinary tract symptoms	Diagnosis	ICD-10-CM
N40.1	Benign prostatic hyperplasia with lower urinary tract symptoms	Diagnosis	ICD-10-CM
N40.2	Nodular prostate without lower urinary tract symptoms	Diagnosis	ICD-10-CM
N40.3	Nodular prostate with lower urinary tract symptoms	Diagnosis	ICD-10-CM
	Benign Prostatic Hyperplasia: Exclusion		
D29.1	Benign neoplasm of prostate	Diagnosis	ICD-10-CM
	Chronic Kidney Disease		
A18.11	Tuberculosis of kidney and ureter	Diagnosis	ICD-10-CM
A52.75	Syphilis of kidney and ureter	Diagnosis	ICD-10-CM
B52.0	Plasmodium malariae malaria with nephropathy	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
K76.7	Hepatorenal syndrome	Diagnosis	ICD-10-CM
M10.30	Gout due to renal impairment, unspecified site	Diagnosis	ICD-10-CM
M10.311	Gout due to renal impairment, right shoulder	Diagnosis	ICD-10-CM
M10.312	Gout due to renal impairment, left shoulder	Diagnosis	ICD-10-CM
M10.319	Gout due to renal impairment, unspecified shoulder	Diagnosis	ICD-10-CM
M10.321	Gout due to renal impairment, right elbow	Diagnosis	ICD-10-CM
M10.322	Gout due to renal impairment, left elbow	Diagnosis	ICD-10-CM
M10.329	Gout due to renal impairment, unspecified elbow	Diagnosis	ICD-10-CM
M10.331	Gout due to renal impairment, right wrist	Diagnosis	ICD-10-CM
M10.332	Gout due to renal impairment, left wrist	Diagnosis	ICD-10-CM
M10.339	Gout due to renal impairment, unspecified wrist	Diagnosis	ICD-10-CM
M10.341	Gout due to renal impairment, right hand	Diagnosis	ICD-10-CM
M10.342	Gout due to renal impairment, left hand	Diagnosis	ICD-10-CM
M10.349	Gout due to renal impairment, unspecified hand	Diagnosis	ICD-10-CM
M10.351	Gout due to renal impairment, right hip	Diagnosis	ICD-10-CM
M10.352	Gout due to renal impairment, left hip	Diagnosis	ICD-10-CM
M10.359	Gout due to renal impairment, unspecified hip	Diagnosis	ICD-10-CM
M10.361	Gout due to renal impairment, right knee	Diagnosis	ICD-10-CM
M10.362	Gout due to renal impairment, left knee	Diagnosis	ICD-10-CM
M10.369	Gout due to renal impairment, unspecified knee	Diagnosis	ICD-10-CM
M10.371	Gout due to renal impairment, right ankle and foot	Diagnosis	ICD-10-CM
M10.372	Gout due to renal impairment, left ankle and foot	Diagnosis	ICD-10-CM
M10.379	Gout due to renal impairment, unspecified ankle and foot	Diagnosis	ICD-10-CM
M10.38	Gout due to renal impairment, vertebrae	Diagnosis	ICD-10-CM
M10.39	Gout due to renal impairment, multiple sites	Diagnosis	ICD-10-CM
M32.14	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M35.04	Sicca syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
M35.0A	Sjogren syndrome with glomerular disease	Diagnosis	ICD-10-CM
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
N01.3	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.4	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.5	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N01.6	Rapidly progressive nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N01.7	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N01.A	Rapidly progressive nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N02.2	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N02.3	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.4	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.6	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N02.8	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM
N02.9	Recurrent and persistent hematuria with unspecified morphologic changes	Diagnosis	ICD-10-CM
N02.A	Recurrent and persistent hematuria with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N02.B1	Recurrent and persistent immunoglobulin A nephropathy with glomerular lesion	Diagnosis	ICD-10-CM
N02.B2	Recurrent and persistent immunoglobulin A nephropathy with focal and segmental glomerular lesion	Diagnosis	ICD-10-CM
N02.B3	Recurrent and persistent immunoglobulin A nephropathy with diffuse membranoproliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.B4	Recurrent and persistent immunoglobulin A nephropathy with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N02.B5	Recurrent and persistent immunoglobulin A nephropathy with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.B6	Recurrent and persistent immunoglobulin A nephropathy with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.B9	Other recurrent and persistent immunoglobulin A nephropathy	Diagnosis	ICD-10-CM
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N03.6	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N03.8	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N03.A	Chronic nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N04.0	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N04.20	Nephrotic syndrome with diffuse membranous glomerulonephritis, unspecified	Diagnosis	ICD-10-CM
N04.21	Primary membranous nephropathy with nephrotic syndrome	Diagnosis	ICD-10-CM
N04.22	Secondary membranous nephropathy with nephrotic syndrome	Diagnosis	ICD-10-CM
N04.29	Other nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N04.6	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N04.8	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N04.9	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N04.A	Nephrotic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N05.1	Unspecified nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N05.2	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N05.3	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.4	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N05.6	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N05.7	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N05.8	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N05.A	Unspecified nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N06.0	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N06.1	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N06.2	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N06.20	Isolated proteinuria with diffuse membranous glomerulonephritis, unspecified	Diagnosis	ICD-10-CM
N06.21	Primary membranous nephropathy with isolated proteinuria	Diagnosis	ICD-10-CM
N06.22	Secondary membranous nephropathy with isolated proteinuria	Diagnosis	ICD-10-CM
N06.29	Other isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
N06.3	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.4	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.5	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N06.6	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N06.7	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N06.8	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N06.9	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
N06.A	Isolated proteinuria with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N07.1	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N07.2	Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.5	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N07.6	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM
N07.7	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
N07.A	Hereditary nephropathy, not elsewhere classified with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N14.0	Analgesic nephropathy	Diagnosis	ICD-10-CM
N14.1	Nephropathy induced by other drugs, medicaments and biological substances	Diagnosis	ICD-10-CM
N14.11	Contrast-induced nephropathy	Diagnosis	ICD-10-CM
N14.19	Nephropathy induced by other drugs, medicaments and biological substances	Diagnosis	ICD-10-CM
N14.2	Nephropathy induced by unspecified drug, medicament or biological substance	Diagnosis	ICD-10-CM
N14.3	Nephropathy induced by heavy metals	Diagnosis	ICD-10-CM
N14.4	Toxic nephropathy, not elsewhere classified	Diagnosis	ICD-10-CM
N15.0	Balkan nephropathy	Diagnosis	ICD-10-CM
N15.8	Other specified renal tubulo-interstitial diseases	Diagnosis	ICD-10-CM
N15.9	Renal tubulo-interstitial disease, unspecified	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N18.1	Chronic kidney disease, stage 1	Diagnosis	ICD-10-CM
N18.2	Chronic kidney disease, stage 2 (mild)	Diagnosis	ICD-10-CM
N18.3	Chronic kidney disease, stage 3 (moderate)	Diagnosis	ICD-10-CM
N18.30	Chronic kidney disease, stage 3 unspecified	Diagnosis	ICD-10-CM
N18.31	Chronic kidney disease, stage 3a	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
N18.32	Chronic kidney disease, stage 3b	Diagnosis	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	Diagnosis	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N18.6	End stage renal disease	Diagnosis	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	Diagnosis	ICD-10-CM
N25.1	Nephrogenic diabetes insipidus	Diagnosis	ICD-10-CM
N25.89	Other disorders resulting from impaired renal tubular function	Diagnosis	ICD-10-CM
N25.9	Disorder resulting from impaired renal tubular function, unspecified	Diagnosis	ICD-10-CM
N26.1	Atrophy of kidney (terminal)	Diagnosis	ICD-10-CM
N26.9	Renal sclerosis, unspecified	Diagnosis	ICD-10-CM
N99.0	Postprocedural (acute) (chronic) kidney failure	Diagnosis	ICD-10-CM
Q61.02	Congenital multiple renal cysts	Diagnosis	ICD-10-CM
Q61.11	Cystic dilatation of collecting ducts	Diagnosis	ICD-10-CM
Q61.19	Other polycystic kidney, infantile type	Diagnosis	ICD-10-CM
Q61.2	Polycystic kidney, adult type	Diagnosis	ICD-10-CM
Q61.3	Polycystic kidney, unspecified	Diagnosis	ICD-10-CM
Q61.4	Renal dysplasia	Diagnosis	ICD-10-CM
Q61.5	Medullary cystic kidney	Diagnosis	ICD-10-CM
Q61.8	Other cystic kidney diseases	Diagnosis	ICD-10-CM
	Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis		
J40	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
J41.0	Simple chronic bronchitis	Diagnosis	ICD-10-CM
J41.1	Mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J41.8	Mixed simple and mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J42	Unspecified chronic bronchitis	Diagnosis	ICD-10-CM
J43.0	Unilateral pulmonary emphysema [MacLeod's syndrome]	Diagnosis	ICD-10-CM
J43.1	Panlobular emphysema	Diagnosis	ICD-10-CM
J43.2	Centrilobular emphysema	Diagnosis	ICD-10-CM
J43.9	Emphysema, unspecified	Diagnosis	ICD-10-CM
J44.0	Chronic obstructive pulmonary disease with (acute) lower respiratory infection	Diagnosis	ICD-10-CM
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation	Diagnosis	ICD-10-CM
J44.81	Bronchiolitis obliterans and bronchiolitis obliterans syndrome	Diagnosis	ICD-10-CM
J44.89	Other specified chronic obstructive pulmonary disease	Diagnosis	ICD-10-CM
J44.9	Chronic obstructive pulmonary disease, unspecified	Diagnosis	ICD-10-CM
J47.0	Bronchiectasis with acute lower respiratory infection	Diagnosis	ICD-10-CM
J47.1	Bronchiectasis with (acute) exacerbation	Diagnosis	ICD-10-CM
J47.9	Bronchiectasis, uncomplicated	Diagnosis	ICD-10-CM
J98.2	Interstitial emphysema	Diagnosis	ICD-10-CM
J98.3	Compensatory emphysema	Diagnosis	ICD-10-CM
	Osteoporosis		
M80.00XA	Age-related osteoporosis with current pathological fracture, unspecified site, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.011A	Age-related osteoporosis with current pathological fracture, right shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M80.012A	Age-related osteoporosis with current pathological fracture, left shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.019A	Age-related osteoporosis with current pathological fracture, unspecified shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.021A	Age-related osteoporosis with current pathological fracture, right humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.022A	Age-related osteoporosis with current pathological fracture, left humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.029A	Age-related osteoporosis with current pathological fracture, unspecified humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.031A	Age-related osteoporosis with current pathological fracture, right forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.032A	Age-related osteoporosis with current pathological fracture, left forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.039A	Age-related osteoporosis with current pathological fracture, unspecified forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.041A	Age-related osteoporosis with current pathological fracture, right hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.042A	Age-related osteoporosis with current pathological fracture, left hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.049A	Age-related osteoporosis with current pathological fracture, unspecified hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.051A	Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.052A	Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.059A	Age-related osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.061A	Age-related osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.062A	Age-related osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.069A	Age-related osteoporosis with current pathological fracture, unspecified lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.071A	Age-related osteoporosis with current pathological fracture, right ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.072A	Age-related osteoporosis with current pathological fracture, left ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.079A	Age-related osteoporosis with current pathological fracture, unspecified ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.08XA	Age-related osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture	Diagnosis	ICD-10-CM
M80.0AXA	Age-related osteoporosis with current pathological fracture, other site, initial encounter for fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M80.0B1A	Age-related osteoporosis with current pathological fracture, right pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.0B2A	Age-related osteoporosis with current pathological fracture, left pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.0B9A	Age-related osteoporosis with current pathological fracture, unspecified pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.80XA	Other osteoporosis with current pathological fracture, unspecified site, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.811A	Other osteoporosis with current pathological fracture, right shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.812A	Other osteoporosis with current pathological fracture, left shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.819A	Other osteoporosis with current pathological fracture, unspecified shoulder, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.821A	Other osteoporosis with current pathological fracture, right humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.822A	Other osteoporosis with current pathological fracture, left humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.829A	Other osteoporosis with current pathological fracture, unspecified humerus, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.831A	Other osteoporosis with current pathological fracture, right forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.832A	Other osteoporosis with current pathological fracture, left forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.839A	Other osteoporosis with current pathological fracture, unspecified forearm, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.841A	Other osteoporosis with current pathological fracture, right hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.842A	Other osteoporosis with current pathological fracture, left hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.849A	Other osteoporosis with current pathological fracture, unspecified hand, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.851A	Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.852A	Other osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.859A	Other osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.861A	Other osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.862A	Other osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.869A	Other osteoporosis with current pathological fracture, unspecified lower leg, initial encounter for fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
M80.871A	Other osteoporosis with current pathological fracture, right ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.872A	Other osteoporosis with current pathological fracture, left ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.879A	Other osteoporosis with current pathological fracture, unspecified ankle and foot, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.88XA	Other osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture	Diagnosis	ICD-10-CM
M80.8AXA	Other osteoporosis with current pathological fracture, other site, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.8B1A	Other osteoporosis with current pathological fracture, right pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.8B2A	Other osteoporosis with current pathological fracture, left pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.8B9A	Other osteoporosis with current pathological fracture, unspecified pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M81.0	Age-related osteoporosis without current pathological fracture	Diagnosis	ICD-10-CM
M81.6	Localized osteoporosis [Lequesne]	Diagnosis	ICD-10-CM
M81.8	Other osteoporosis without current pathological fracture	Diagnosis	ICD-10-CM
	Depression, Bipolar or Other Mood Disorders		
F06.31	Mood disorder due to known physiological condition with depressive features	Diagnosis	ICD-10-CM
F06.32	Mood disorder due to known physiological condition with major depressive-like episode	Diagnosis	ICD-10-CM
F31.0	Bipolar disorder, current episode hypomanic	Diagnosis	ICD-10-CM
F31.10	Bipolar disorder, current episode manic without psychotic features, unspecified	Diagnosis	ICD-10-CM
F31.11	Bipolar disorder, current episode manic without psychotic features, mild	Diagnosis	ICD-10-CM
F31.12	Bipolar disorder, current episode manic without psychotic features, moderate	Diagnosis	ICD-10-CM
F31.13	Bipolar disorder, current episode manic without psychotic features, severe	Diagnosis	ICD-10-CM
F31.2	Bipolar disorder, current episode manic severe with psychotic features	Diagnosis	ICD-10-CM
F31.30	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified	Diagnosis	ICD-10-CM
F31.31	Bipolar disorder, current episode depressed, mild	Diagnosis	ICD-10-CM
F31.32	Bipolar disorder, current episode depressed, moderate	Diagnosis	ICD-10-CM
F31.4	Bipolar disorder, current episode depressed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.5	Bipolar disorder, current episode depressed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.60	Bipolar disorder, current episode mixed, unspecified	Diagnosis	ICD-10-CM
F31.61	Bipolar disorder, current episode mixed, mild	Diagnosis	ICD-10-CM
F31.62	Bipolar disorder, current episode mixed, moderate	Diagnosis	ICD-10-CM
F31.63	Bipolar disorder, current episode mixed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.64	Bipolar disorder, current episode mixed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.71	Bipolar disorder, in partial remission, most recent episode hypomanic	Diagnosis	ICD-10-CM
F31.73	Bipolar disorder, in partial remission, most recent episode manic	Diagnosis	ICD-10-CM
F31.75	Bipolar disorder, in partial remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.76	Bipolar disorder, in full remission, most recent episode depressed	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F31.77	Bipolar disorder, in partial remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.78	Bipolar disorder, in full remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.81	Bipolar II disorder	Diagnosis	ICD-10-CM
F31.89	Other bipolar disorder	Diagnosis	ICD-10-CM
F31.9	Bipolar disorder, unspecified	Diagnosis	ICD-10-CM
F32.0	Major depressive disorder, single episode, mild	Diagnosis	ICD-10-CM
F32.1	Major depressive disorder, single episode, moderate	Diagnosis	ICD-10-CM
F32.2	Major depressive disorder, single episode, severe without psychotic features	Diagnosis	ICD-10-CM
F32.3	Major depressive disorder, single episode, severe with psychotic features	Diagnosis	ICD-10-CM
F32.4	Major depressive disorder, single episode, in partial remission	Diagnosis	ICD-10-CM
F32.5	Major depressive disorder, single episode, in full remission	Diagnosis	ICD-10-CM
F32.8	Other depressive episodes	Diagnosis	ICD-10-CM
F32.89	Other specified depressive episodes	Diagnosis	ICD-10-CM
F32.9	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-10-CM
F32.A	Depression, unspecified	Diagnosis	ICD-10-CM
F33.0	Major depressive disorder, recurrent, mild	Diagnosis	ICD-10-CM
F33.1	Major depressive disorder, recurrent, moderate	Diagnosis	ICD-10-CM
F33.2	Major depressive disorder, recurrent severe without psychotic features	Diagnosis	ICD-10-CM
F33.3	Major depressive disorder, recurrent, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F33.40	Major depressive disorder, recurrent, in remission, unspecified	Diagnosis	ICD-10-CM
F33.41	Major depressive disorder, recurrent, in partial remission	Diagnosis	ICD-10-CM
F33.42	Major depressive disorder, recurrent, in full remission	Diagnosis	ICD-10-CM
F33.8	Other recurrent depressive disorders	Diagnosis	ICD-10-CM
F33.9	Major depressive disorder, recurrent, unspecified	Diagnosis	ICD-10-CM
F34.0	Cyclothymic disorder	Diagnosis	ICD-10-CM
F34.1	Dysthymic disorder	Diagnosis	ICD-10-CM
F43.21	Adjustment disorder with depressed mood	Diagnosis	ICD-10-CM
F43.23	Adjustment disorder with mixed anxiety and depressed mood	Diagnosis	ICD-10-CM
	Hypothyroidism		
E00.0	Congenital iodine-deficiency syndrome, neurological type	Diagnosis	ICD-10-CM
E00.1	Congenital iodine-deficiency syndrome, myxedematous type	Diagnosis	ICD-10-CM
E00.2	Congenital iodine-deficiency syndrome, mixed type	Diagnosis	ICD-10-CM
E00.9	Congenital iodine-deficiency syndrome, unspecified	Diagnosis	ICD-10-CM
E01.8	Other iodine-deficiency related thyroid disorders and allied conditions	Diagnosis	ICD-10-CM
E02	Subclinical iodine-deficiency hypothyroidism	Diagnosis	ICD-10-CM
E03.0	Congenital hypothyroidism with diffuse goiter	Diagnosis	ICD-10-CM
E03.1	Congenital hypothyroidism without goiter	Diagnosis	ICD-10-CM
E03.2	Hypothyroidism due to medicaments and other exogenous substances	Diagnosis	ICD-10-CM
E03.3	Postinfectious hypothyroidism	Diagnosis	ICD-10-CM
E03.4	Atrophy of thyroid (acquired)	Diagnosis	ICD-10-CM
E03.8	Other specified hypothyroidism	Diagnosis	ICD-10-CM
E03.9	Hypothyroidism, unspecified	Diagnosis	ICD-10-CM
E89.0	Postprocedural hypothyroidism	Diagnosis	ICD-10-CM
	Pneumonia		

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Code	Description	Code Category	Code Type
A01.03	Typhoid pneumonia	Diagnosis	ICD-10-CM
A02.22	Salmonella pneumonia	Diagnosis	ICD-10-CM
A06.5	Amebic lung abscess	Diagnosis	ICD-10-CM
A20.2	Pneumonic plague	Diagnosis	ICD-10-CM
A21.2	Pulmonary tularemia	Diagnosis	ICD-10-CM
A22.1	Pulmonary anthrax	Diagnosis	ICD-10-CM
A31.0	Pulmonary mycobacterial infection	Diagnosis	ICD-10-CM
A37.01	Whooping cough due to Bordetella pertussis with pneumonia	Diagnosis	ICD-10-CM
A37.11	Whooping cough due to Bordetella parapertussis with pneumonia	Diagnosis	ICD-10-CM
A37.81	Whooping cough due to other Bordetella species with pneumonia	Diagnosis	ICD-10-CM
A37.91	Whooping cough, unspecified species with pneumonia	Diagnosis	ICD-10-CM
A40.3	Sepsis due to Streptococcus pneumoniae	Diagnosis	ICD-10-CM
A42.0	Pulmonary actinomycosis	Diagnosis	ICD-10-CM
A43.0	Pulmonary nocardiosis	Diagnosis	ICD-10-CM
A48.1	Legionnaires' disease	Diagnosis	ICD-10-CM
A50.04	Early congenital syphilitic pneumonia	Diagnosis	ICD-10-CM
A54.84	Gonococcal pneumonia	Diagnosis	ICD-10-CM
B01.2	Varicella pneumonia	Diagnosis	ICD-10-CM
B05.2	Measles complicated by pneumonia	Diagnosis	ICD-10-CM
B06.81	Rubella pneumonia	Diagnosis	ICD-10-CM
B37.1	Pulmonary candidiasis	Diagnosis	ICD-10-CM
B38.0	Acute pulmonary coccidioidomycosis	Diagnosis	ICD-10-CM
B38.2	Pulmonary coccidioidomycosis, unspecified	Diagnosis	ICD-10-CM
B39.0	Acute pulmonary histoplasmosis capsulati	Diagnosis	ICD-10-CM
B39.2	Pulmonary histoplasmosis capsulati, unspecified	Diagnosis	ICD-10-CM
B40.0	Acute pulmonary blastomycosis	Diagnosis	ICD-10-CM
B40.2	Pulmonary blastomycosis, unspecified	Diagnosis	ICD-10-CM
B41.0	Pulmonary paracoccidioidomycosis	Diagnosis	ICD-10-CM
B58.3	Pulmonary toxoplasmosis	Diagnosis	ICD-10-CM
B59	Pneumocystosis	Diagnosis	ICD-10-CM
B66.4	Paragonimiasis	Diagnosis	ICD-10-CM
B67.1	Echinococcus granulosus infection of lung	Diagnosis	ICD-10-CM
B77.81	Ascariasis pneumonia	Diagnosis	ICD-10-CM
B95.3	Streptococcus pneumoniae as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B96.0	Mycoplasma pneumoniae [M. pneumoniae] as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
B96.1	Klebsiella pneumoniae [K. pneumoniae] as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
J09.X1	Influenza due to identified novel influenza A virus with pneumonia	Diagnosis	ICD-10-CM
J10.00	Influenza due to other identified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J10.01	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia	Diagnosis	ICD-10-CM
J10.08	Influenza due to other identified influenza virus with other specified pneumonia	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
J11.00	Influenza due to unidentified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J11.08	Influenza due to unidentified influenza virus with specified pneumonia	Diagnosis	ICD-10-CM
J12.0	Adenoviral pneumonia	Diagnosis	ICD-10-CM
J12.1	Respiratory syncytial virus pneumonia	Diagnosis	ICD-10-CM
J12.2	Parainfluenza virus pneumonia	Diagnosis	ICD-10-CM
J12.3	Human metapneumovirus pneumonia	Diagnosis	ICD-10-CM
J12.81	Pneumonia due to SARS-associated coronavirus	Diagnosis	ICD-10-CM
J12.82	Pneumonia due to coronavirus disease 2019	Diagnosis	ICD-10-CM
J12.89	Other viral pneumonia	Diagnosis	ICD-10-CM
J12.9	Viral pneumonia, unspecified	Diagnosis	ICD-10-CM
J13	Pneumonia due to Streptococcus pneumoniae	Diagnosis	ICD-10-CM
J14	Pneumonia due to Hemophilus influenzae	Diagnosis	ICD-10-CM
J15.0	Pneumonia due to Klebsiella pneumoniae	Diagnosis	ICD-10-CM
J15.1	Pneumonia due to Pseudomonas	Diagnosis	ICD-10-CM
J15.20	Pneumonia due to staphylococcus, unspecified	Diagnosis	ICD-10-CM
J15.211	Pneumonia due to Methicillin susceptible Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.212	Pneumonia due to Methicillin resistant Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.29	Pneumonia due to other staphylococcus	Diagnosis	ICD-10-CM
J15.3	Pneumonia due to streptococcus, group B	Diagnosis	ICD-10-CM
J15.4	Pneumonia due to other streptococci	Diagnosis	ICD-10-CM
J15.5	Pneumonia due to Escherichia coli	Diagnosis	ICD-10-CM
J15.6	Pneumonia due to other Gram-negative bacteria	Diagnosis	ICD-10-CM
J15.61	Pneumonia due to Acinetobacter baumannii	Diagnosis	ICD-10-CM
J15.69	Pneumonia due to other Gram-negative bacteria	Diagnosis	ICD-10-CM
J15.7	Pneumonia due to Mycoplasma pneumoniae	Diagnosis	ICD-10-CM
J15.8	Pneumonia due to other specified bacteria	Diagnosis	ICD-10-CM
J15.9	Unspecified bacterial pneumonia	Diagnosis	ICD-10-CM
J16.0	Chlamydial pneumonia	Diagnosis	ICD-10-CM
J16.8	Pneumonia due to other specified infectious organisms	Diagnosis	ICD-10-CM
J17	Pneumonia in diseases classified elsewhere	Diagnosis	ICD-10-CM
J18.0	Bronchopneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.1	Lobar pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.2	Hypostatic pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.8	Other pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.9	Pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J20.0	Acute bronchitis due to Mycoplasma pneumoniae	Diagnosis	ICD-10-CM
J84.111	Idiopathic interstitial pneumonia, not otherwise specified	Diagnosis	ICD-10-CM
J84.116	Cryptogenic organizing pneumonia	Diagnosis	ICD-10-CM
J84.117	Desquamative interstitial pneumonia	Diagnosis	ICD-10-CM
J84.178	Other interstitial pulmonary diseases with fibrosis in diseases classified elsewhere	Diagnosis	ICD-10-CM
J84.2	Lymphoid interstitial pneumonia	Diagnosis	ICD-10-CM
J85.1	Abscess of lung with pneumonia	Diagnosis	ICD-10-CM
J95.851	Ventilator associated pneumonia	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
P23.0	Congenital pneumonia due to viral agent	Diagnosis	ICD-10-CM
P23.1	Congenital pneumonia due to Chlamydia	Diagnosis	ICD-10-CM
P23.2	Congenital pneumonia due to staphylococcus	Diagnosis	ICD-10-CM
P23.3	Congenital pneumonia due to streptococcus, group B	Diagnosis	ICD-10-CM
P23.4	Congenital pneumonia due to Escherichia coli	Diagnosis	ICD-10-CM
P23.5	Congenital pneumonia due to Pseudomonas	Diagnosis	ICD-10-CM
P23.6	Congenital pneumonia due to other bacterial agents	Diagnosis	ICD-10-CM
P23.8	Congenital pneumonia due to other organisms	Diagnosis	ICD-10-CM
P23.9	Congenital pneumonia, unspecified	Diagnosis	ICD-10-CM
Z87.01	Personal history of pneumonia (recurrent)	Diagnosis	ICD-10-CM
	Parkinson's Disease		
G20	Parkinson's disease	Diagnosis	ICD-10-CM
G20.A1	Parkinson's disease without dyskinesia, without mention of fluctuations	Diagnosis	ICD-10-CM
G20.A2	Parkinson's disease without dyskinesia, with fluctuations	Diagnosis	ICD-10-CM
G20.B1	Parkinson's disease with dyskinesia, without mention of fluctuations	Diagnosis	ICD-10-CM
G20.B2	Parkinson's disease with dyskinesia, with fluctuations	Diagnosis	ICD-10-CM
G20.C	Parkinsonism, unspecified	Diagnosis	ICD-10-CM
G21.11	Neuroleptic induced parkinsonism	Diagnosis	ICD-10-CM
G21.19	Other drug induced secondary parkinsonism	Diagnosis	ICD-10-CM
G21.3	Postencephalitic parkinsonism	Diagnosis	ICD-10-CM
G21.4	Vascular parkinsonism	Diagnosis	ICD-10-CM
G21.8	Other secondary parkinsonism	Diagnosis	ICD-10-CM
G21.9	Secondary parkinsonism, unspecified	Diagnosis	ICD-10-CM
G31.83	Neurocognitive disorder with Lewy bodies	Diagnosis	ICD-10-CM
	Non-Alzheimer's Dementia		
F01.50	Vascular dementia, unspecified severity, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F01.51	Vascular dementia, unspecified severity, with behavioral disturbance	Diagnosis	ICD-10-CM
F01.511	Vascular dementia, unspecified severity, with agitation	Diagnosis	ICD-10-CM
F01.518	Vascular dementia, unspecified severity, with other behavioral disturbance	Diagnosis	ICD-10-CM
F01.52	Vascular dementia, unspecified severity, with psychotic disturbance	Diagnosis	ICD-10-CM
F01.53	Vascular dementia, unspecified severity, with mood disturbance	Diagnosis	ICD-10-CM
F01.54	Vascular dementia, unspecified severity, with anxiety	Diagnosis	ICD-10-CM
F01.A0	Vascular dementia, mild, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F01.A11	Vascular dementia, mild, with agitation	Diagnosis	ICD-10-CM
F01.A18	Vascular dementia, mild, with other behavioral disturbance	Diagnosis	ICD-10-CM
F01.A2	Vascular dementia, mild, with psychotic disturbance	Diagnosis	ICD-10-CM
F01.A3	Vascular dementia, mild, with mood disturbance	Diagnosis	ICD-10-CM
F01.A4	Vascular dementia, mild, with anxiety	Diagnosis	ICD-10-CM
F01.B0	Vascular dementia, moderate, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F01.B11	Vascular dementia, moderate, with agitation	Diagnosis	ICD-10-CM
F01.B18	Vascular dementia, moderate, with other behavioral disturbance	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
F01.B2	Vascular dementia, moderate, with psychotic disturbance	Diagnosis	ICD-10-CM
F01.B3	Vascular dementia, moderate, with mood disturbance	Diagnosis	ICD-10-CM
F01.B4	Vascular dementia, moderate, with anxiety	Diagnosis	ICD-10-CM
F01.C0	Vascular dementia, severe, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F01.C11	Vascular dementia, severe, with agitation	Diagnosis	ICD-10-CM
F01.C18	Vascular dementia, severe, with other behavioral disturbance	Diagnosis	ICD-10-CM
F01.C2	Vascular dementia, severe, with psychotic disturbance	Diagnosis	ICD-10-CM
F01.C3	Vascular dementia, severe, with mood disturbance	Diagnosis	ICD-10-CM
F01.C4	Vascular dementia, severe, with anxiety	Diagnosis	ICD-10-CM
F02.80	Dementia in other diseases classified elsewhere, unspecified severity, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F02.81	Dementia in other diseases classified elsewhere, unspecified severity, with behavioral disturbance	Diagnosis	ICD-10-CM
F02.811	Dementia in other diseases classified elsewhere, unspecified severity, with agitation	Diagnosis	ICD-10-CM
F02.818	Dementia in other diseases classified elsewhere, unspecified severity, with other behavioral disturbance	Diagnosis	ICD-10-CM
F02.82	Dementia in other diseases classified elsewhere, unspecified severity, with psychotic disturbance	Diagnosis	ICD-10-CM
F02.83	Dementia in other diseases classified elsewhere, unspecified severity, with mood disturbance	Diagnosis	ICD-10-CM
F02.84	Dementia in other diseases classified elsewhere, unspecified severity, with anxiety	Diagnosis	ICD-10-CM
F02.A0	Dementia in other diseases classified elsewhere, mild, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F02.A11	Dementia in other diseases classified elsewhere, mild, with agitation	Diagnosis	ICD-10-CM
F02.A18	Dementia in other diseases classified elsewhere, mild, with other behavioral disturbance	Diagnosis	ICD-10-CM
F02.A2	Dementia in other diseases classified elsewhere, mild, with psychotic disturbance	Diagnosis	ICD-10-CM
F02.A3	Dementia in other diseases classified elsewhere, mild, with mood disturbance	Diagnosis	ICD-10-CM
F02.A4	Dementia in other diseases classified elsewhere, mild, with anxiety	Diagnosis	ICD-10-CM
F02.B0	Dementia in other diseases classified elsewhere, moderate, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F02.B11	Dementia in other diseases classified elsewhere, moderate, with agitation	Diagnosis	ICD-10-CM
F02.B18	Dementia in other diseases classified elsewhere, moderate, with other behavioral disturbance	Diagnosis	ICD-10-CM
F02.B2	Dementia in other diseases classified elsewhere, moderate, with psychotic disturbance	Diagnosis	ICD-10-CM
F02.B3	Dementia in other diseases classified elsewhere, moderate, with mood disturbance	Diagnosis	ICD-10-CM
F02.B4	Dementia in other diseases classified elsewhere, moderate, with anxiety	Diagnosis	ICD-10-CM
F02.C0	Dementia in other diseases classified elsewhere, severe, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
F02.C11	Dementia in other diseases classified elsewhere, severe, with agitation	Diagnosis	ICD-10-CM
F02.C18	Dementia in other diseases classified elsewhere, severe, with other behavioral disturbance	Diagnosis	ICD-10-CM
F02.C2	Dementia in other diseases classified elsewhere, severe, with psychotic disturbance	Diagnosis	ICD-10-CM
F02.C3	Dementia in other diseases classified elsewhere, severe, with mood disturbance	Diagnosis	ICD-10-CM
F02.C4	Dementia in other diseases classified elsewhere, severe, with anxiety	Diagnosis	ICD-10-CM
F03.90	Unspecified dementia, unspecified severity, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F03.91	Unspecified dementia, unspecified severity, with behavioral disturbance	Diagnosis	ICD-10-CM
F03.911	Unspecified dementia, unspecified severity, with agitation	Diagnosis	ICD-10-CM
F03.918	Unspecified dementia, unspecified severity, with other behavioral disturbance	Diagnosis	ICD-10-CM
F03.92	Unspecified dementia, unspecified severity, with psychotic disturbance	Diagnosis	ICD-10-CM
F03.93	Unspecified dementia, unspecified severity, with mood disturbance	Diagnosis	ICD-10-CM
F03.94	Unspecified dementia, unspecified severity, with anxiety	Diagnosis	ICD-10-CM
F03.A0	Unspecified dementia, mild, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F03.A11	Unspecified dementia, mild, with agitation	Diagnosis	ICD-10-CM
F03.A18	Unspecified dementia, mild, with other behavioral disturbance	Diagnosis	ICD-10-CM
F03.A2	Unspecified dementia, mild, with psychotic disturbance	Diagnosis	ICD-10-CM
F03.A3	Unspecified dementia, mild, with mood disturbance	Diagnosis	ICD-10-CM
F03.A4	Unspecified dementia, mild, with anxiety	Diagnosis	ICD-10-CM
F03.B0	Unspecified dementia, moderate, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F03.B11	Unspecified dementia, moderate, with agitation	Diagnosis	ICD-10-CM
F03.B18	Unspecified dementia, moderate, with other behavioral disturbance	Diagnosis	ICD-10-CM
F03.B2	Unspecified dementia, moderate, with psychotic disturbance	Diagnosis	ICD-10-CM
F03.B3	Unspecified dementia, moderate, with mood disturbance	Diagnosis	ICD-10-CM
F03.B4	Unspecified dementia, moderate, with anxiety	Diagnosis	ICD-10-CM
F03.C0	Unspecified dementia, severe, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F03.C11	Unspecified dementia, severe, with agitation	Diagnosis	ICD-10-CM
F03.C18	Unspecified dementia, severe, with other behavioral disturbance	Diagnosis	ICD-10-CM
F03.C2	Unspecified dementia, severe, with psychotic disturbance	Diagnosis	ICD-10-CM
F03.C3	Unspecified dementia, severe, with mood disturbance	Diagnosis	ICD-10-CM
F03.C4	Unspecified dementia, severe, with anxiety	Diagnosis	ICD-10-CM
F05	Delirium due to known physiological condition	Diagnosis	ICD-10-CM
G13.8	Systemic atrophy primarily affecting central nervous system in other diseases classified elsewhere	Diagnosis	ICD-10-CM
G31.01	Pick's disease	Diagnosis	ICD-10-CM
G31.09	Other frontotemporal neurocognitive disorder	Diagnosis	ICD-10-CM
G31.1	Senile degeneration of brain, not elsewhere classified	Diagnosis	ICD-10-CM
G31.2	Degeneration of nervous system due to alcohol	Diagnosis	ICD-10-CM
G31.83	Neurocognitive disorder with Lewy bodies	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
G94	Other disorders of brain in diseases classified elsewhere	Diagnosis	ICD-10-CM
R41.81	Age-related cognitive decline	Diagnosis	ICD-10-CM
	Sleep Disorders		
F51.01	Primary insomnia	Diagnosis	ICD-10-CM
F51.02	Adjustment insomnia	Diagnosis	ICD-10-CM
F51.03	Paradoxical insomnia	Diagnosis	ICD-10-CM
F51.09	Other insomnia not due to a substance or known physiological condition	Diagnosis	ICD-10-CM
F51.11	Primary hypersomnia	Diagnosis	ICD-10-CM
F51.12	Insufficient sleep syndrome	Diagnosis	ICD-10-CM
F51.19	Other hypersomnia not due to a substance or known physiological condition	Diagnosis	ICD-10-CM
F51.3	Sleepwalking [somnambulism]	Diagnosis	ICD-10-CM
F51.4	Sleep terrors [night terrors]	Diagnosis	ICD-10-CM
F51.5	Nightmare disorder	Diagnosis	ICD-10-CM
F51.8	Other sleep disorders not due to a substance or known physiological condition	Diagnosis	ICD-10-CM
F51.9	Sleep disorder not due to a substance or known physiological condition, unspecified	Diagnosis	ICD-10-CM
G47.00	Insomnia, unspecified	Diagnosis	ICD-10-CM
G47.10	Hypersomnia, unspecified	Diagnosis	ICD-10-CM
G47.20	Circadian rhythm sleep disorder, unspecified type	Diagnosis	ICD-10-CM
G47.30	Sleep apnea, unspecified	Diagnosis	ICD-10-CM
G47.411	Narcolepsy with cataplexy	Diagnosis	ICD-10-CM
G47.419	Narcolepsy without cataplexy	Diagnosis	ICD-10-CM
G47.421	Narcolepsy in conditions classified elsewhere with cataplexy	Diagnosis	ICD-10-CM
G47.429	Narcolepsy in conditions classified elsewhere without cataplexy	Diagnosis	ICD-10-CM
G47.8	Other sleep disorders	Diagnosis	ICD-10-CM
G47.9	Sleep disorder, unspecified	Diagnosis	ICD-10-CM
	Substance Use Disorder		
99406	Smoking and tobacco use cessation counseling visit; intermediate, greater than 3 minutes up to 10 minutes	Procedure	CPT-4
99407	Smoking and tobacco use cessation counseling visit; intensive, greater than 10 minutes	Procedure	CPT-4
F10.10	Alcohol abuse, uncomplicated	Diagnosis	ICD-10-CM
F10.120	Alcohol abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.121	Alcohol abuse with intoxication delirium	Diagnosis	ICD-10-CM
F10.129	Alcohol abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.130	Alcohol abuse with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10.131	Alcohol abuse with withdrawal delirium	Diagnosis	ICD-10-CM
F10.132	Alcohol abuse with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F10.139	Alcohol abuse with withdrawal, unspecified	Diagnosis	ICD-10-CM
F10.14	Alcohol abuse with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.150	Alcohol abuse with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.151	Alcohol abuse with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.159	Alcohol abuse with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.180	Alcohol abuse with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
F10.181	Alcohol abuse with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.182	Alcohol abuse with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.188	Alcohol abuse with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.19	Alcohol abuse with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.20	Alcohol dependence, uncomplicated	Diagnosis	ICD-10-CM
F10.220	Alcohol dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.221	Alcohol dependence with intoxication delirium	Diagnosis	ICD-10-CM
F10.229	Alcohol dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.230	Alcohol dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10.231	Alcohol dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F10.232	Alcohol dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F10.239	Alcohol dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F10.24	Alcohol dependence with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.250	Alcohol dependence with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.251	Alcohol dependence with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.259	Alcohol dependence with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.26	Alcohol dependence with alcohol-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F10.27	Alcohol dependence with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10.280	Alcohol dependence with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.281	Alcohol dependence with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.282	Alcohol dependence with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.288	Alcohol dependence with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.29	Alcohol dependence with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.920	Alcohol use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.921	Alcohol use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F10.929	Alcohol use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.930	Alcohol use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10.931	Alcohol use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F10.932	Alcohol use, unspecified with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F10.939	Alcohol use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F10.94	Alcohol use, unspecified with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.950	Alcohol use, unspecified with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.951	Alcohol use, unspecified with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.959	Alcohol use, unspecified with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.96	Alcohol use, unspecified with alcohol-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F10.97	Alcohol use, unspecified with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10.980	Alcohol use, unspecified with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.981	Alcohol use, unspecified with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.982	Alcohol use, unspecified with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.988	Alcohol use, unspecified with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.99	Alcohol use, unspecified with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F11.10	Opioid abuse, uncomplicated	Diagnosis	ICD-10-CM
F11.120	Opioid abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F11.121	Opioid abuse with intoxication delirium	Diagnosis	ICD-10-CM
F11.122	Opioid abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.129	Opioid abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.13	Opioid abuse with withdrawal	Diagnosis	ICD-10-CM
F11.14	Opioid abuse with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.150	Opioid abuse with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.151	Opioid abuse with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11.159	Opioid abuse with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.181	Opioid abuse with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.182	Opioid abuse with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.188	Opioid abuse with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.19	Opioid abuse with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F11.20	Opioid dependence, uncomplicated	Diagnosis	ICD-10-CM
F11.220	Opioid dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.221	Opioid dependence with intoxication delirium	Diagnosis	ICD-10-CM
F11.222	Opioid dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.229	Opioid dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.23	Opioid dependence with withdrawal	Diagnosis	ICD-10-CM
F11.24	Opioid dependence with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.250	Opioid dependence with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.251	Opioid dependence with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11.259	Opioid dependence with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.281	Opioid dependence with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.282	Opioid dependence with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.288	Opioid dependence with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.29	Opioid dependence with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F11.90	Opioid use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F11.920	Opioid use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.921	Opioid use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F11.922	Opioid use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.929	Opioid use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.93	Opioid use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F11.94	Opioid use, unspecified with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.950	Opioid use, unspecified with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.951	Opioid use, unspecified with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11.959	Opioid use, unspecified with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.981	Opioid use, unspecified with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.982	Opioid use, unspecified with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.988	Opioid use, unspecified with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.99	Opioid use, unspecified with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F12.10	Cannabis abuse, uncomplicated	Diagnosis	ICD-10-CM
F12.120	Cannabis abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.121	Cannabis abuse with intoxication delirium	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F12.122	Cannabis abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.129	Cannabis abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.13	Cannabis abuse with withdrawal	Diagnosis	ICD-10-CM
F12.150	Cannabis abuse with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.151	Cannabis abuse with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.159	Cannabis abuse with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.180	Cannabis abuse with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12.188	Cannabis abuse with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.19	Cannabis abuse with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.20	Cannabis dependence, uncomplicated	Diagnosis	ICD-10-CM
F12.220	Cannabis dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.221	Cannabis dependence with intoxication delirium	Diagnosis	ICD-10-CM
F12.222	Cannabis dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.229	Cannabis dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.250	Cannabis dependence with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.251	Cannabis dependence with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.259	Cannabis dependence with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.280	Cannabis dependence with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12.288	Cannabis dependence with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.29	Cannabis dependence with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.90	Cannabis use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F12.920	Cannabis use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.921	Cannabis use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F12.922	Cannabis use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.929	Cannabis use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.950	Cannabis use, unspecified with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.951	Cannabis use, unspecified with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.959	Cannabis use, unspecified with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.980	Cannabis use, unspecified with anxiety disorder	Diagnosis	ICD-10-CM
F12.988	Cannabis use, unspecified with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.99	Cannabis use, unspecified with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F13.10	Sedative, hypnotic or anxiolytic abuse, uncomplicated	Diagnosis	ICD-10-CM
F13.120	Sedative, hypnotic or anxiolytic abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13.121	Sedative, hypnotic or anxiolytic abuse with intoxication delirium	Diagnosis	ICD-10-CM
F13.129	Sedative, hypnotic or anxiolytic abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.130	Sedative, hypnotic or anxiolytic abuse with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13.131	Sedative, hypnotic or anxiolytic abuse with withdrawal delirium	Diagnosis	ICD-10-CM
F13.132	Sedative, hypnotic or anxiolytic abuse with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F13.139	Sedative, hypnotic or anxiolytic abuse with withdrawal, unspecified	Diagnosis	ICD-10-CM
F13.14	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13.150	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F13.151	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13.159	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F13.180	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced anxiety disorder	Diagnosis	ICD-10-CM
F13.181	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM
F13.182	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.188	Sedative, hypnotic or anxiolytic abuse with other sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.19	Sedative, hypnotic or anxiolytic abuse with unspecified sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.20	Sedative, hypnotic or anxiolytic dependence, uncomplicated	Diagnosis	ICD-10-CM
F13.220	Sedative, hypnotic or anxiolytic dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13.221	Sedative, hypnotic or anxiolytic dependence with intoxication delirium	Diagnosis	ICD-10-CM
F13.229	Sedative, hypnotic or anxiolytic dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.230	Sedative, hypnotic or anxiolytic dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13.231	Sedative, hypnotic or anxiolytic dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F13.232	Sedative, hypnotic or anxiolytic dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F13.239	Sedative, hypnotic or anxiolytic dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F13.24	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13.250	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F13.251	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13.259	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F13.26	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F13.27	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting dementia	Diagnosis	ICD-10-CM
F13.280	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced anxiety disorder	Diagnosis	ICD-10-CM
F13.281	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM
F13.282	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.288	Sedative, hypnotic or anxiolytic dependence with other sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
F13.29	Sedative, hypnotic or anxiolytic dependence with unspecified sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.90	Sedative, hypnotic, or anxiolytic use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F13.920	Sedative, hypnotic or anxiolytic use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13.921	Sedative, hypnotic or anxiolytic use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F13.929	Sedative, hypnotic or anxiolytic use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.930	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13.931	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F13.932	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal with perceptual disturbances	Diagnosis	ICD-10-CM
F13.939	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F13.94	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13.950	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F13.951	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13.959	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F13.96	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F13.97	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced persisting dementia	Diagnosis	ICD-10-CM
F13.980	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced anxiety disorder	Diagnosis	ICD-10-CM
F13.981	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM
F13.982	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.988	Sedative, hypnotic or anxiolytic use, unspecified with other sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.99	Sedative, hypnotic or anxiolytic use, unspecified with unspecified sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F14.10	Cocaine abuse, uncomplicated	Diagnosis	ICD-10-CM
F14.120	Cocaine abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.121	Cocaine abuse with intoxication with delirium	Diagnosis	ICD-10-CM
F14.122	Cocaine abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.129	Cocaine abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.13	Cocaine abuse, unspecified with withdrawal	Diagnosis	ICD-10-CM
F14.14	Cocaine abuse with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.150	Cocaine abuse with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.151	Cocaine abuse with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.159	Cocaine abuse with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
F14.180	Cocaine abuse with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.181	Cocaine abuse with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.182	Cocaine abuse with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.188	Cocaine abuse with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.19	Cocaine abuse with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.20	Cocaine dependence, uncomplicated	Diagnosis	ICD-10-CM
F14.220	Cocaine dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.221	Cocaine dependence with intoxication delirium	Diagnosis	ICD-10-CM
F14.222	Cocaine dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.229	Cocaine dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.23	Cocaine dependence with withdrawal	Diagnosis	ICD-10-CM
F14.24	Cocaine dependence with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.250	Cocaine dependence with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.251	Cocaine dependence with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.259	Cocaine dependence with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.280	Cocaine dependence with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.281	Cocaine dependence with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.282	Cocaine dependence with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.288	Cocaine dependence with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.29	Cocaine dependence with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.90	Cocaine use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F14.920	Cocaine use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.921	Cocaine use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F14.922	Cocaine use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.929	Cocaine use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.93	Cocaine use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F14.94	Cocaine use, unspecified with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.950	Cocaine use, unspecified with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.951	Cocaine use, unspecified with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.959	Cocaine use, unspecified with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.980	Cocaine use, unspecified with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.981	Cocaine use, unspecified with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.982	Cocaine use, unspecified with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.988	Cocaine use, unspecified with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.99	Cocaine use, unspecified with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F15.10	Other stimulant abuse, uncomplicated	Diagnosis	ICD-10-CM
F15.120	Other stimulant abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.121	Other stimulant abuse with intoxication delirium	Diagnosis	ICD-10-CM
F15.122	Other stimulant abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.129	Other stimulant abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.13	Other stimulant abuse with withdrawal	Diagnosis	ICD-10-CM
F15.14	Other stimulant abuse with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.150	Other stimulant abuse with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
F15.151	Other stimulant abuse with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.159	Other stimulant abuse with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.180	Other stimulant abuse with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.181	Other stimulant abuse with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.182	Other stimulant abuse with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.188	Other stimulant abuse with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.19	Other stimulant abuse with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.20	Other stimulant dependence, uncomplicated	Diagnosis	ICD-10-CM
F15.220	Other stimulant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.221	Other stimulant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F15.222	Other stimulant dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.229	Other stimulant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.23	Other stimulant dependence with withdrawal	Diagnosis	ICD-10-CM
F15.24	Other stimulant dependence with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.250	Other stimulant dependence with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.251	Other stimulant dependence with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.259	Other stimulant dependence with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.280	Other stimulant dependence with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.281	Other stimulant dependence with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.282	Other stimulant dependence with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.288	Other stimulant dependence with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.29	Other stimulant dependence with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.90	Other stimulant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F15.920	Other stimulant use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.921	Other stimulant use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F15.922	Other stimulant use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.929	Other stimulant use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.93	Other stimulant use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F15.94	Other stimulant use, unspecified with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.950	Other stimulant use, unspecified with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.951	Other stimulant use, unspecified with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.959	Other stimulant use, unspecified with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.980	Other stimulant use, unspecified with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.981	Other stimulant use, unspecified with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.982	Other stimulant use, unspecified with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.988	Other stimulant use, unspecified with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.99	Other stimulant use, unspecified with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
F16.10	Hallucinogen abuse, uncomplicated	Diagnosis	ICD-10-CM
F16.120	Hallucinogen abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F16.121	Hallucinogen abuse with intoxication with delirium	Diagnosis	ICD-10-CM
F16.122	Hallucinogen abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F16.129	Hallucinogen abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F16.14	Hallucinogen abuse with hallucinogen-induced mood disorder	Diagnosis	ICD-10-CM
F16.150	Hallucinogen abuse with hallucinogen-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F16.151	Hallucinogen abuse with hallucinogen-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F16.159	Hallucinogen abuse with hallucinogen-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F16.180	Hallucinogen abuse with hallucinogen-induced anxiety disorder	Diagnosis	ICD-10-CM
F16.183	Hallucinogen abuse with hallucinogen persisting perception disorder (flashbacks)	Diagnosis	ICD-10-CM
F16.188	Hallucinogen abuse with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.19	Hallucinogen abuse with unspecified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.20	Hallucinogen dependence, uncomplicated	Diagnosis	ICD-10-CM
F16.220	Hallucinogen dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F16.221	Hallucinogen dependence with intoxication with delirium	Diagnosis	ICD-10-CM
F16.229	Hallucinogen dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F16.24	Hallucinogen dependence with hallucinogen-induced mood disorder	Diagnosis	ICD-10-CM
F16.250	Hallucinogen dependence with hallucinogen-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F16.251	Hallucinogen dependence with hallucinogen-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F16.259	Hallucinogen dependence with hallucinogen-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F16.280	Hallucinogen dependence with hallucinogen-induced anxiety disorder	Diagnosis	ICD-10-CM
F16.283	Hallucinogen dependence with hallucinogen persisting perception disorder (flashbacks)	Diagnosis	ICD-10-CM
F16.288	Hallucinogen dependence with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.29	Hallucinogen dependence with unspecified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.90	Hallucinogen use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F16.920	Hallucinogen use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F16.921	Hallucinogen use, unspecified with intoxication with delirium	Diagnosis	ICD-10-CM
F16.929	Hallucinogen use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F16.94	Hallucinogen use, unspecified with hallucinogen-induced mood disorder	Diagnosis	ICD-10-CM
F16.950	Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F16.951	Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F16.959	Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F16.980	Hallucinogen use, unspecified with hallucinogen-induced anxiety disorder	Diagnosis	ICD-10-CM
F16.983	Hallucinogen use, unspecified with hallucinogen persisting perception disorder (flashbacks)	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F16.988	Hallucinogen use, unspecified with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.99	Hallucinogen use, unspecified with unspecified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F17.200	Nicotine dependence, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F17.201	Nicotine dependence, unspecified, in remission	Diagnosis	ICD-10-CM
F17.203	Nicotine dependence unspecified, with withdrawal	Diagnosis	ICD-10-CM
F17.208	Nicotine dependence, unspecified, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.209	Nicotine dependence, unspecified, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.210	Nicotine dependence, cigarettes, uncomplicated	Diagnosis	ICD-10-CM
F17.211	Nicotine dependence, cigarettes, in remission	Diagnosis	ICD-10-CM
F17.213	Nicotine dependence, cigarettes, with withdrawal	Diagnosis	ICD-10-CM
F17.218	Nicotine dependence, cigarettes, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.219	Nicotine dependence, cigarettes, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.220	Nicotine dependence, chewing tobacco, uncomplicated	Diagnosis	ICD-10-CM
F17.221	Nicotine dependence, chewing tobacco, in remission	Diagnosis	ICD-10-CM
F17.223	Nicotine dependence, chewing tobacco, with withdrawal	Diagnosis	ICD-10-CM
F17.228	Nicotine dependence, chewing tobacco, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.229	Nicotine dependence, chewing tobacco, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.290	Nicotine dependence, other tobacco product, uncomplicated	Diagnosis	ICD-10-CM
F17.291	Nicotine dependence, other tobacco product, in remission	Diagnosis	ICD-10-CM
F17.293	Nicotine dependence, other tobacco product, with withdrawal	Diagnosis	ICD-10-CM
F17.298	Nicotine dependence, other tobacco product, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.299	Nicotine dependence, other tobacco product, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F18.10	Inhalant abuse, uncomplicated	Diagnosis	ICD-10-CM
F18.120	Inhalant abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F18.121	Inhalant abuse with intoxication delirium	Diagnosis	ICD-10-CM
F18.129	Inhalant abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F18.14	Inhalant abuse with inhalant-induced mood disorder	Diagnosis	ICD-10-CM
F18.150	Inhalant abuse with inhalant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F18.151	Inhalant abuse with inhalant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F18.159	Inhalant abuse with inhalant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F18.17	Inhalant abuse with inhalant-induced dementia	Diagnosis	ICD-10-CM
F18.180	Inhalant abuse with inhalant-induced anxiety disorder	Diagnosis	ICD-10-CM
F18.188	Inhalant abuse with other inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.19	Inhalant abuse with unspecified inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.20	Inhalant dependence, uncomplicated	Diagnosis	ICD-10-CM
F18.220	Inhalant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F18.221	Inhalant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F18.229	Inhalant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F18.24	Inhalant dependence with inhalant-induced mood disorder	Diagnosis	ICD-10-CM
F18.250	Inhalant dependence with inhalant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F18.251	Inhalant dependence with inhalant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F18.259	Inhalant dependence with inhalant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F18.27	Inhalant dependence with inhalant-induced dementia	Diagnosis	ICD-10-CM
F18.280	Inhalant dependence with inhalant-induced anxiety disorder	Diagnosis	ICD-10-CM
F18.288	Inhalant dependence with other inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.29	Inhalant dependence with unspecified inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.90	Inhalant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F18.920	Inhalant use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F18.921	Inhalant use, unspecified with intoxication with delirium	Diagnosis	ICD-10-CM
F18.929	Inhalant use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F18.94	Inhalant use, unspecified with inhalant-induced mood disorder	Diagnosis	ICD-10-CM
F18.950	Inhalant use, unspecified with inhalant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F18.951	Inhalant use, unspecified with inhalant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F18.959	Inhalant use, unspecified with inhalant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F18.97	Inhalant use, unspecified with inhalant-induced persisting dementia	Diagnosis	ICD-10-CM
F18.980	Inhalant use, unspecified with inhalant-induced anxiety disorder	Diagnosis	ICD-10-CM
F18.988	Inhalant use, unspecified with other inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.99	Inhalant use, unspecified with unspecified inhalant-induced disorder	Diagnosis	ICD-10-CM
F19.10	Other psychoactive substance abuse, uncomplicated	Diagnosis	ICD-10-CM
F19.120	Other psychoactive substance abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19.121	Other psychoactive substance abuse with intoxication delirium	Diagnosis	ICD-10-CM
F19.122	Other psychoactive substance abuse with intoxication with perceptual disturbances	Diagnosis	ICD-10-CM
F19.129	Other psychoactive substance abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.130	Other psychoactive substance abuse with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19.131	Other psychoactive substance abuse with withdrawal delirium	Diagnosis	ICD-10-CM
F19.132	Other psychoactive substance abuse with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F19.139	Other psychoactive substance abuse with withdrawal, unspecified	Diagnosis	ICD-10-CM
F19.14	Other psychoactive substance abuse with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19.150	Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19.151	Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19.159	Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F19.16	Other psychoactive substance abuse with psychoactive substance-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F19.17	Other psychoactive substance abuse with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F19.180	Other psychoactive substance abuse with psychoactive substance-induced anxiety disorder	Diagnosis	ICD-10-CM
F19.181	Other psychoactive substance abuse with psychoactive substance-induced sexual dysfunction	Diagnosis	ICD-10-CM
F19.182	Other psychoactive substance abuse with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19.188	Other psychoactive substance abuse with other psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.19	Other psychoactive substance abuse with unspecified psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.20	Other psychoactive substance dependence, uncomplicated	Diagnosis	ICD-10-CM
F19.220	Other psychoactive substance dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19.221	Other psychoactive substance dependence with intoxication delirium	Diagnosis	ICD-10-CM
F19.222	Other psychoactive substance dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F19.229	Other psychoactive substance dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.230	Other psychoactive substance dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19.231	Other psychoactive substance dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F19.232	Other psychoactive substance dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F19.239	Other psychoactive substance dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F19.24	Other psychoactive substance dependence with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19.250	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19.251	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19.259	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F19.26	Other psychoactive substance dependence with psychoactive substance-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F19.27	Other psychoactive substance dependence with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM
F19.280	Other psychoactive substance dependence with psychoactive substance-induced anxiety disorder	Diagnosis	ICD-10-CM
F19.281	Other psychoactive substance dependence with psychoactive substance-induced sexual dysfunction	Diagnosis	ICD-10-CM
F19.282	Other psychoactive substance dependence with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19.288	Other psychoactive substance dependence with other psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.29	Other psychoactive substance dependence with unspecified psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.90	Other psychoactive substance use, unspecified, uncomplicated	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F19.920	Other psychoactive substance use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19.921	Other psychoactive substance use, unspecified with intoxication with delirium	Diagnosis	ICD-10-CM
F19.922	Other psychoactive substance use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F19.929	Other psychoactive substance use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.930	Other psychoactive substance use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19.931	Other psychoactive substance use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F19.932	Other psychoactive substance use, unspecified with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F19.939	Other psychoactive substance use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F19.94	Other psychoactive substance use, unspecified with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19.950	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19.951	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19.959	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F19.96	Other psychoactive substance use, unspecified with psychoactive substance-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F19.97	Other psychoactive substance use, unspecified with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM
F19.980	Other psychoactive substance use, unspecified with psychoactive substance-induced anxiety disorder	Diagnosis	ICD-10-CM
F19.981	Other psychoactive substance use, unspecified with psychoactive substance-induced sexual dysfunction	Diagnosis	ICD-10-CM
F19.982	Other psychoactive substance use, unspecified with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19.988	Other psychoactive substance use, unspecified with other psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.99	Other psychoactive substance use, unspecified with unspecified psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F55.0	Abuse of antacids	Diagnosis	ICD-10-CM
F55.1	Abuse of herbal or folk remedies	Diagnosis	ICD-10-CM
F55.2	Abuse of laxatives	Diagnosis	ICD-10-CM
F55.3	Abuse of steroids or hormones	Diagnosis	ICD-10-CM
F55.4	Abuse of vitamins	Diagnosis	ICD-10-CM
F55.8	Abuse of other non-psychoactive substances	Diagnosis	ICD-10-CM
G0533	Medication assisted treatment, buprenorphine (injectable) administered on a weekly basis; weekly bundle including dispensing and/or administration, substance use counseling, individual and group therapy, and toxicology testing if performed (provision of the services by a Medicare-enrolled opioid treatment program)	Procedure	HCPCS

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
G2067	Medication assisted treatment, methadone; weekly bundle including dispensing and/or administration, substance use counseling, individual and group therapy, and toxicology testing, if performed (provision of the services by a Medicare-enrolled opioid treatment program)	Procedure	HCPCS
G2068	Medication assisted treatment, buprenorphine (oral); weekly bundle including dispensing and/or administration, substance use counseling, individual and group therapy, and toxicology testing if performed (provision of the services by a Medicare-enrolled opioid treatment program)	Procedure	HCPCS
G2069	Medication assisted treatment, buprenorphine (injectable) administered on a monthly basis; bundle including dispensing and/or administration, substance use counseling, individual and group therapy, and toxicology testing if performed (provision of the services by a Medicare-enrolled opioid treatment program)	Procedure	HCPCS
G2070	Medication assisted treatment, buprenorphine (implant insertion); weekly bundle including dispensing and/or administration, substance use counseling, individual and group therapy, and toxicology testing if performed (provision of the services by a Medicare-enrolled opioid treatment program)	Procedure	HCPCS
G2071	Medication assisted treatment, buprenorphine (implant removal); weekly bundle including dispensing and/or administration, substance use counseling, individual and group therapy, and toxicology testing if performed (provision of the services by a Medicare-enrolled opioid treatment program)	Procedure	HCPCS
G2072	Medication assisted treatment, buprenorphine (implant insertion and removal); weekly bundle including dispensing and/or administration, substance use counseling, individual and group therapy, and toxicology testing if performed (provision of the services by a Medicare-enrolled opioid treatment program)	Procedure	HCPCS
G2073	Medication assisted treatment, naltrexone; weekly bundle including dispensing and/or administration, substance use counseling, individual and group therapy, and toxicology testing if performed (provision of the services by a Medicare-enrolled opioid treatment program)	Procedure	HCPCS
G2078	Take home supply of methadone; up to 7 additional day supply (provision of the services by a Medicare-enrolled opioid treatment program); list separately in addition to code for primary procedure	Procedure	HCPCS
G2079	Take home supply of buprenorphine (oral); up to 7 additional day supply (provision of the services by a Medicare-enrolled opioid treatment program); list separately in addition to code for primary procedure	Procedure	HCPCS
G62.1	Alcoholic polyneuropathy	Diagnosis	ICD-10-CM
G9276	Documentation that patient is a current tobacco user	Procedure	HCPCS
G9458	Patient documented as tobacco user and received tobacco cessation intervention (must include at least one of the following: advice given to quit smoking or tobacco use, counseling on the benefits of quitting smoking or tobacco use, assistance with or referral to external smoking or tobacco cessation support programs, or current enrollment in smoking or tobacco use cessation program) if identified as a tobacco user	Procedure	HCPCS
H0020	Alcohol and/or drug services; methadone administration and/or service (provision of the drug by a licensed program)	Procedure	HCPCS

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Code	Description	Code Category	Code Type
HZ2ZZZZ	Detoxification Services for Substance Abuse Treatment	Procedure	ICD-10-PCS
HZ30ZZZ	Individual Counseling for Substance Abuse Treatment, Cognitive	Procedure	ICD-10-PCS
HZ31ZZZ	Individual Counseling for Substance Abuse Treatment, Behavioral	Procedure	ICD-10-PCS
HZ32ZZZ	Individual Counseling for Substance Abuse Treatment, Cognitive-Behavioral	Procedure	ICD-10-PCS
HZ33ZZZ	Individual Counseling for Substance Abuse Treatment, 12-Step	Procedure	ICD-10-PCS
HZ34ZZZ	Individual Counseling for Substance Abuse Treatment, Interpersonal	Procedure	ICD-10-PCS
HZ35ZZZ	Individual Counseling for Substance Abuse Treatment, Vocational	Procedure	ICD-10-PCS
HZ36ZZZ	Individual Counseling for Substance Abuse Treatment, Psychoeducation	Procedure	ICD-10-PCS
HZ37ZZZ	Individual Counseling for Substance Abuse Treatment, Motivational Enhancement	Procedure	ICD-10-PCS
HZ38ZZZ	Individual Counseling for Substance Abuse Treatment, Confrontational	Procedure	ICD-10-PCS
HZ39ZZZ	Individual Counseling for Substance Abuse Treatment, Continuing Care	Procedure	ICD-10-PCS
HZ3BZZZ	Individual Counseling for Substance Abuse Treatment, Spiritual	Procedure	ICD-10-PCS
HZ40ZZZ	Group Counseling for Substance Abuse Treatment, Cognitive	Procedure	ICD-10-PCS
HZ81ZZZ	Medication Management for Substance Abuse Treatment, Methadone Maintenance	Procedure	ICD-10-PCS
HZ84ZZZ	Medication Management for Substance Abuse Treatment, Naltrexone	Procedure	ICD-10-PCS
HZ85ZZZ	Medication Management for Substance Abuse Treatment, Naloxone	Procedure	ICD-10-PCS
HZ86ZZZ	Medication Management for Substance Abuse Treatment, Clonidine	Procedure	ICD-10-PCS
HZ91ZZZ	Pharmacotherapy for Substance Abuse Treatment, Methadone Maintenance	Procedure	ICD-10-PCS
HZ93ZZZ	Pharmacotherapy for Substance Abuse Treatment, Antabuse	Procedure	ICD-10-PCS
HZ94ZZZ	Pharmacotherapy for Substance Abuse Treatment, Naltrexone	Procedure	ICD-10-PCS
HZ95ZZZ	Pharmacotherapy for Substance Abuse Treatment, Naloxone	Procedure	ICD-10-PCS
HZ96ZZZ	Pharmacotherapy for Substance Abuse Treatment, Clonidine	Procedure	ICD-10-PCS
I42.6	Alcoholic cardiomyopathy	Diagnosis	ICD-10-CM
J0571	Buprenorphine, oral, 1 mg	Procedure	HCPCS
J0572	Buprenorphine/naloxone, oral, less than or equal to 3 mg buprenorphine	Procedure	HCPCS
J0573	Buprenorphine/naloxone, oral, greater than 3 mg, but less than or equal to 6 mg buprenorphine	Procedure	HCPCS
J0574	Buprenorphine/naloxone, oral, greater than 6 mg, but less than or equal to 10 mg buprenorphine	Procedure	HCPCS
J0575	Buprenorphine/naloxone, oral, greater than 10 mg buprenorphine	Procedure	HCPCS
J0577	Injection, buprenorphine extended-release (Brixadi), less than or equal to 7 days of therapy	Procedure	HCPCS
J0578	Injection, buprenorphine extended-release (Brixadi), greater than 7 days and up to 28 days of therapy	Procedure	HCPCS
J0592	Injection, buprenorphine HCl, 0.1 mg	Procedure	HCPCS
J1230	Injection, methadone HCl, up to 10 mg	Procedure	HCPCS
J2315	Injection, naltrexone, depot form, 1 mg	Procedure	HCPCS
K29.20	Alcoholic gastritis without bleeding	Diagnosis	ICD-10-CM
K29.21	Alcoholic gastritis with bleeding	Diagnosis	ICD-10-CM
K70.0	Alcoholic fatty liver	Diagnosis	ICD-10-CM
K70.10	Alcoholic hepatitis without ascites	Diagnosis	ICD-10-CM
K70.11	Alcoholic hepatitis with ascites	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
K70.2	Alcoholic fibrosis and sclerosis of liver	Diagnosis	ICD-10-CM
K70.30	Alcoholic cirrhosis of liver without ascites	Diagnosis	ICD-10-CM
K70.31	Alcoholic cirrhosis of liver with ascites	Diagnosis	ICD-10-CM
K70.40	Alcoholic hepatic failure without coma	Diagnosis	ICD-10-CM
K70.41	Alcoholic hepatic failure with coma	Diagnosis	ICD-10-CM
K70.9	Alcoholic liver disease, unspecified	Diagnosis	ICD-10-CM
O35.5XX0	Maternal care for (suspected) damage to fetus by drugs, not applicable or unspecified	Diagnosis	ICD-10-CM
O35.5XX1	Maternal care for (suspected) damage to fetus by drugs, fetus 1	Diagnosis	ICD-10-CM
O35.5XX2	Maternal care for (suspected) damage to fetus by drugs, fetus 2	Diagnosis	ICD-10-CM
O35.5XX3	Maternal care for (suspected) damage to fetus by drugs, fetus 3	Diagnosis	ICD-10-CM
O35.5XX4	Maternal care for (suspected) damage to fetus by drugs, fetus 4	Diagnosis	ICD-10-CM
O35.5XX5	Maternal care for (suspected) damage to fetus by drugs, fetus 5	Diagnosis	ICD-10-CM
O35.5XX9	Maternal care for (suspected) damage to fetus by drugs, other fetus	Diagnosis	ICD-10-CM
O99.320	Drug use complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.321	Drug use complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.322	Drug use complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.323	Drug use complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.324	Drug use complicating childbirth	Diagnosis	ICD-10-CM
O99.325	Drug use complicating the puerperium	Diagnosis	ICD-10-CM
O99.330	Smoking (tobacco) complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.331	Smoking (tobacco) complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.332	Smoking (tobacco) complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.333	Smoking (tobacco) complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
O99.335	Smoking (tobacco) complicating the puerperium	Diagnosis	ICD-10-CM
P04.3	Newborn affected by maternal use of alcohol	Diagnosis	ICD-10-CM
P04.41	Newborn affected by maternal use of cocaine	Diagnosis	ICD-10-CM
P04.49	Newborn affected by maternal use of other drugs of addiction	Diagnosis	ICD-10-CM
P96.1	Neonatal withdrawal symptoms from maternal use of drugs of addiction	Diagnosis	ICD-10-CM
P96.2	Withdrawal symptoms from therapeutic use of drugs in newborn	Diagnosis	ICD-10-CM
Q86.0	Fetal alcohol syndrome (dysmorphic)	Diagnosis	ICD-10-CM
Q9991	Injection, buprenorphine extended-release (Sublocade), less than or equal to 100 mg	Procedure	HCPCS
Q9992	Injection, buprenorphine extended-release (Sublocade), greater than 100 mg	Procedure	HCPCS
S0109	Methadone, oral, 5 mg	Procedure	HCPCS
T40.0X1A	Poisoning by opium, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.0X1D	Poisoning by opium, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.0X1S	Poisoning by opium, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.0X2A	Poisoning by opium, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.0X2D	Poisoning by opium, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X2S	Poisoning by opium, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.0X3A	Poisoning by opium, assault, initial encounter	Diagnosis	ICD-10-CM
T40.0X3D	Poisoning by opium, assault, subsequent encounter	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
T40.0X3S	Poisoning by opium, assault, sequela	Diagnosis	ICD-10-CM
T40.0X4A	Poisoning by opium, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.0X4D	Poisoning by opium, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X4S	Poisoning by opium, undetermined, sequela	Diagnosis	ICD-10-CM
T40.0X5A	Adverse effect of opium, initial encounter	Diagnosis	ICD-10-CM
T40.0X5D	Adverse effect of opium, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X5S	Adverse effect of opium, sequela	Diagnosis	ICD-10-CM
T40.1X1A	Poisoning by heroin, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.1X1D	Poisoning by heroin, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.1X1S	Poisoning by heroin, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.1X2A	Poisoning by heroin, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.1X2D	Poisoning by heroin, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X2S	Poisoning by heroin, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.1X3A	Poisoning by heroin, assault, initial encounter	Diagnosis	ICD-10-CM
T40.1X3D	Poisoning by heroin, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X3S	Poisoning by heroin, assault, sequela	Diagnosis	ICD-10-CM
T40.1X4A	Poisoning by heroin, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.1X4D	Poisoning by heroin, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X4S	Poisoning by heroin, undetermined, sequela	Diagnosis	ICD-10-CM
T40.2X1A	Poisoning by other opioids, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.2X1D	Poisoning by other opioids, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.2X1S	Poisoning by other opioids, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.2X2A	Poisoning by other opioids, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.2X2D	Poisoning by other opioids, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X2S	Poisoning by other opioids, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.2X3A	Poisoning by other opioids, assault, initial encounter	Diagnosis	ICD-10-CM
T40.2X3D	Poisoning by other opioids, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X3S	Poisoning by other opioids, assault, sequela	Diagnosis	ICD-10-CM
T40.2X4A	Poisoning by other opioids, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.2X4D	Poisoning by other opioids, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X4S	Poisoning by other opioids, undetermined, sequela	Diagnosis	ICD-10-CM
T40.2X5A	Adverse effect of other opioids, initial encounter	Diagnosis	ICD-10-CM
T40.2X5D	Adverse effect of other opioids, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X5S	Adverse effect of other opioids, sequela	Diagnosis	ICD-10-CM
T40.3X1A	Poisoning by methadone, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.3X1D	Poisoning by methadone, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.3X1S	Poisoning by methadone, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.3X2A	Poisoning by methadone, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.3X2D	Poisoning by methadone, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X2S	Poisoning by methadone, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.3X3A	Poisoning by methadone, assault, initial encounter	Diagnosis	ICD-10-CM
T40.3X3D	Poisoning by methadone, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X3S	Poisoning by methadone, assault, sequela	Diagnosis	ICD-10-CM
T40.3X4A	Poisoning by methadone, undetermined, initial encounter	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
T40.3X4D	Poisoning by methadone, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X4S	Poisoning by methadone, undetermined, sequela	Diagnosis	ICD-10-CM
T40.3X5A	Adverse effect of methadone, initial encounter	Diagnosis	ICD-10-CM
T40.3X5D	Adverse effect of methadone, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X5S	Adverse effect of methadone, sequela	Diagnosis	ICD-10-CM
T40.411A	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.411D	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.411S	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.412A	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.412D	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.412S	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.413A	Poisoning by fentanyl or fentanyl analogs, assault, initial encounter	Diagnosis	ICD-10-CM
T40.413D	Poisoning by fentanyl or fentanyl analogs, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.413S	Poisoning by fentanyl or fentanyl analogs, assault, sequela	Diagnosis	ICD-10-CM
T40.414A	Poisoning by fentanyl or fentanyl analogs, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.414D	Poisoning by fentanyl or fentanyl analogs, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.414S	Poisoning by fentanyl or fentanyl analogs, undetermined, sequela	Diagnosis	ICD-10-CM
T40.415A	Adverse effect of fentanyl or fentanyl analogs, initial encounter	Diagnosis	ICD-10-CM
T40.415D	Adverse effect of fentanyl or fentanyl analogs, subsequent encounter	Diagnosis	ICD-10-CM
T40.415S	Adverse effect of fentanyl or fentanyl analogs, sequela	Diagnosis	ICD-10-CM
T40.421A	Poisoning by tramadol, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.421D	Poisoning by tramadol, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.421S	Poisoning by tramadol, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.422A	Poisoning by tramadol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.422D	Poisoning by tramadol, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.422S	Poisoning by tramadol, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.423A	Poisoning by tramadol, assault, initial encounter	Diagnosis	ICD-10-CM
T40.423D	Poisoning by tramadol, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.423S	Poisoning by tramadol, assault, sequela	Diagnosis	ICD-10-CM
T40.424A	Poisoning by tramadol, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.424D	Poisoning by tramadol, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.424S	Poisoning by tramadol, undetermined, sequela	Diagnosis	ICD-10-CM
T40.425A	Adverse effect of tramadol, initial encounter	Diagnosis	ICD-10-CM
T40.425D	Adverse effect of tramadol, subsequent encounter	Diagnosis	ICD-10-CM
T40.425S	Adverse effect of tramadol, sequela	Diagnosis	ICD-10-CM
T40.491A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.491D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.491S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.492A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
T40.492D	Poisoning by other synthetic narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.492S	Poisoning by other synthetic narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.493A	Poisoning by other synthetic narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.493D	Poisoning by other synthetic narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.493S	Poisoning by other synthetic narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.494A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.494D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.494S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.495A	Adverse effect of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.495D	Adverse effect of other synthetic narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.495S	Adverse effect of other synthetic narcotics, sequela	Diagnosis	ICD-10-CM
T40.4X1A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.4X1D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.4X1S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.4X2A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.4X2D	Poisoning by other synthetic narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X2S	Poisoning by other synthetic narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.4X3A	Poisoning by other synthetic narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.4X3D	Poisoning by other synthetic narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X3S	Poisoning by other synthetic narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.4X4A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.4X4D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X4S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.4X5A	Adverse effect of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.4X5D	Adverse effect of other synthetic narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X5S	Adverse effect of other synthetic narcotics, sequela	Diagnosis	ICD-10-CM
T40.601A	Poisoning by unspecified narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.601D	Poisoning by unspecified narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.601S	Poisoning by unspecified narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.602A	Poisoning by unspecified narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.602D	Poisoning by unspecified narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.602S	Poisoning by unspecified narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.603A	Poisoning by unspecified narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.603D	Poisoning by unspecified narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.603S	Poisoning by unspecified narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.604A	Poisoning by unspecified narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.604D	Poisoning by unspecified narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.604S	Poisoning by unspecified narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.605A	Adverse effect of unspecified narcotics, initial encounter	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
T40.605D	Adverse effect of unspecified narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.605S	Adverse effect of unspecified narcotics, sequela	Diagnosis	ICD-10-CM
T40.691A	Poisoning by other narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.691D	Poisoning by other narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.691S	Poisoning by other narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.692A	Poisoning by other narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.692D	Poisoning by other narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.692S	Poisoning by other narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.693A	Poisoning by other narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.693D	Poisoning by other narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.693S	Poisoning by other narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.694A	Poisoning by other narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.694D	Poisoning by other narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.694S	Poisoning by other narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.695A	Adverse effect of other narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.695D	Adverse effect of other narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.695S	Adverse effect of other narcotics, sequela	Diagnosis	ICD-10-CM
T40.711A	Poisoning by cannabis, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.721A	Poisoning by synthetic cannabinoids, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.7X1A	Poisoning by cannabis (derivatives), accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.8X1A	Poisoning by lysergide [LSD], accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.901A	Poisoning by unspecified psychodysleptics [hallucinogens], accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.991A	Poisoning by other psychodysleptics [hallucinogens], accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T51.0X1A	Toxic effect of ethanol, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T51.0X2A	Toxic effect of ethanol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T51.0X3A	Toxic effect of ethanol, assault, initial encounter	Diagnosis	ICD-10-CM
T51.0X4A	Toxic effect of ethanol, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65.211A	Toxic effect of chewing tobacco, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.212A	Toxic effect of chewing tobacco, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.213A	Toxic effect of chewing tobacco, assault, initial encounter	Diagnosis	ICD-10-CM
T65.214A	Toxic effect of chewing tobacco, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65.221A	Toxic effect of tobacco cigarettes, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.222A	Toxic effect of tobacco cigarettes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.223A	Toxic effect of tobacco cigarettes, assault, initial encounter	Diagnosis	ICD-10-CM
T65.224A	Toxic effect of tobacco cigarettes, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65.291A	Toxic effect of other tobacco and nicotine, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.292A	Toxic effect of other tobacco and nicotine, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.293A	Toxic effect of other tobacco and nicotine, assault, initial encounter	Diagnosis	ICD-10-CM
T65.294A	Toxic effect of other tobacco and nicotine, undetermined, initial encounter	Diagnosis	ICD-10-CM
Z71.41	Alcohol abuse counseling and surveillance of alcoholic	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Z71.42	Counseling for family member of alcoholic	Diagnosis	ICD-10-CM
Z71.51	Drug abuse counseling and surveillance of drug abuser	Diagnosis	ICD-10-CM
Z71.52	Counseling for family member of drug abuser	Diagnosis	ICD-10-CM
Z71.6	Tobacco abuse counseling	Diagnosis	ICD-10-CM
Z72.0	Tobacco use	Diagnosis	ICD-10-CM
	Anxiety		
F06.4	Anxiety disorder due to known physiological condition	Diagnosis	ICD-10-CM
F40.00	Agoraphobia, unspecified	Diagnosis	ICD-10-CM
F40.01	Agoraphobia with panic disorder	Diagnosis	ICD-10-CM
F40.02	Agoraphobia without panic disorder	Diagnosis	ICD-10-CM
F40.10	Social phobia, unspecified	Diagnosis	ICD-10-CM
F40.11	Social phobia, generalized	Diagnosis	ICD-10-CM
F40.210	Arachnophobia	Diagnosis	ICD-10-CM
F40.218	Other animal type phobia	Diagnosis	ICD-10-CM
F40.220	Fear of thunderstorms	Diagnosis	ICD-10-CM
F40.228	Other natural environment type phobia	Diagnosis	ICD-10-CM
F40.230	Fear of blood	Diagnosis	ICD-10-CM
F40.231	Fear of injections and transfusions	Diagnosis	ICD-10-CM
F40.232	Fear of other medical care	Diagnosis	ICD-10-CM
F40.233	Fear of injury	Diagnosis	ICD-10-CM
F40.240	Claustrophobia	Diagnosis	ICD-10-CM
F40.241	Acrophobia	Diagnosis	ICD-10-CM
F40.242	Fear of bridges	Diagnosis	ICD-10-CM
F40.243	Fear of flying	Diagnosis	ICD-10-CM
F40.248	Other situational type phobia	Diagnosis	ICD-10-CM
F40.290	Androphobia	Diagnosis	ICD-10-CM
F40.291	Gynephobia	Diagnosis	ICD-10-CM
F40.298	Other specified phobia	Diagnosis	ICD-10-CM
F40.8	Other phobic anxiety disorders	Diagnosis	ICD-10-CM
F40.9	Phobic anxiety disorder, unspecified	Diagnosis	ICD-10-CM
F41.0	Panic disorder [episodic paroxysmal anxiety]	Diagnosis	ICD-10-CM
F41.1	Generalized anxiety disorder	Diagnosis	ICD-10-CM
F41.3	Other mixed anxiety disorders	Diagnosis	ICD-10-CM
F41.8	Other specified anxiety disorders	Diagnosis	ICD-10-CM
F41.9	Anxiety disorder, unspecified	Diagnosis	ICD-10-CM
F42.2	Mixed obsessional thoughts and acts	Diagnosis	ICD-10-CM
F42.3	Hoarding disorder	Diagnosis	ICD-10-CM
F42.4	Excoriation (skin-picking) disorder	Diagnosis	ICD-10-CM
F42.8	Other obsessive-compulsive disorder	Diagnosis	ICD-10-CM
F42.9	Obsessive-compulsive disorder, unspecified	Diagnosis	ICD-10-CM
F43.0	Acute stress reaction	Diagnosis	ICD-10-CM
F44.9	Dissociative and conversion disorder, unspecified	Diagnosis	ICD-10-CM
F45.8	Other somatoform disorders	Diagnosis	ICD-10-CM
R45.7	State of emotional shock and stress, unspecified	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
	Behavioral Disorders		
F43	Reaction to severe stress, and adjustment disorders	Diagnosis	ICD-10-CM
F43.2	Adjustment disorders	Diagnosis	ICD-10-CM
F43.20	Adjustment disorder, unspecified	Diagnosis	ICD-10-CM
F43.21	Adjustment disorder with depressed mood	Diagnosis	ICD-10-CM
F43.22	Adjustment disorder with anxiety	Diagnosis	ICD-10-CM
F43.23	Adjustment disorder with mixed anxiety and depressed mood	Diagnosis	ICD-10-CM
F43.24	Adjustment disorder with disturbance of conduct	Diagnosis	ICD-10-CM
F43.25	Adjustment disorder with mixed disturbance of emotions and conduct	Diagnosis	ICD-10-CM
F43.29	Adjustment disorder with other symptoms	Diagnosis	ICD-10-CM
F51.02	Adjustment insomnia	Diagnosis	ICD-10-CM
F63.0	Pathological gambling	Diagnosis	ICD-10-CM
F63.1	Pyromania	Diagnosis	ICD-10-CM
F63.2	Kleptomania	Diagnosis	ICD-10-CM
F63.3	Trichotillomania	Diagnosis	ICD-10-CM
F63.81	Intermittent explosive disorder	Diagnosis	ICD-10-CM
F63.89	Other impulse disorders	Diagnosis	ICD-10-CM
F63.9	Impulse disorder, unspecified	Diagnosis	ICD-10-CM
F90.0	Attention-deficit hyperactivity disorder, predominantly inattentive type	Diagnosis	ICD-10-CM
F90.1	Attention-deficit hyperactivity disorder, predominantly hyperactive type	Diagnosis	ICD-10-CM
F90.2	Attention-deficit hyperactivity disorder, combined type	Diagnosis	ICD-10-CM
F90.8	Attention-deficit hyperactivity disorder, other type	Diagnosis	ICD-10-CM
F90.9	Attention-deficit hyperactivity disorder, unspecified type	Diagnosis	ICD-10-CM
F91.0	Conduct disorder confined to family context	Diagnosis	ICD-10-CM
F91.1	Conduct disorder, childhood-onset type	Diagnosis	ICD-10-CM
F91.2	Conduct disorder, adolescent-onset type	Diagnosis	ICD-10-CM
F91.3	Oppositional defiant disorder	Diagnosis	ICD-10-CM
F91.8	Other conduct disorders	Diagnosis	ICD-10-CM
F91.9	Conduct disorder, unspecified	Diagnosis	ICD-10-CM
Z55.4	Educational maladjustment and discord with teachers and classmates	Diagnosis	ICD-10-CM
Z60.0	Problems of adjustment to life-cycle transitions	Diagnosis	ICD-10-CM
	BMI: Obese or Overweight		
Z68.25	Body mass index [BMI] 25.0-25.9, adult	Diagnosis	ICD-10-CM
Z68.26	Body mass index [BMI] 26.0-26.9, adult	Diagnosis	ICD-10-CM
Z68.27	Body mass index [BMI] 27.0-27.9, adult	Diagnosis	ICD-10-CM
Z68.28	Body mass index [BMI] 28.0-28.9, adult	Diagnosis	ICD-10-CM
Z68.29	Body mass index [BMI] 29.0-29.9, adult	Diagnosis	ICD-10-CM
Z68.3	BODY MASS INDEX BMI 30-39 ADULT	Diagnosis	ICD-10-CM
Z68.30	Body mass index [BMI] 30.0-30.9, adult	Diagnosis	ICD-10-CM
Z68.31	Body mass index [BMI] 31.0-31.9, adult	Diagnosis	ICD-10-CM
Z68.32	Body mass index [BMI] 32.0-32.9, adult	Diagnosis	ICD-10-CM
Z68.33	Body mass index [BMI] 33.0-33.9, adult	Diagnosis	ICD-10-CM
Z68.34	Body mass index [BMI] 34.0-34.9, adult	Diagnosis	ICD-10-CM
Z68.35	Body mass index [BMI] 35.0-35.9, adult	Diagnosis	ICD-10-CM

Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Z68.36	Body mass index [BMI] 36.0-36.9, adult	Diagnosis	ICD-10-CM
Z68.37	Body mass index [BMI] 37.0-37.9, adult	Diagnosis	ICD-10-CM
Z68.38	Body mass index [BMI] 38.0-38.9, adult	Diagnosis	ICD-10-CM
Z68.39	Body mass index [BMI] 39.0-39.9, adult	Diagnosis	ICD-10-CM
Z68.4	BODY MASS INDEX BMI 40 OR GREATER ADULT	Diagnosis	ICD-10-CM
Z68.41	Body mass index [BMI] 40.0-44.9, adult	Diagnosis	ICD-10-CM
Z68.42	Body mass index [BMI] 45.0-49.9, adult	Diagnosis	ICD-10-CM
Z68.43	Body mass index [BMI] 50.0-59.9, adult	Diagnosis	ICD-10-CM
Z68.44	Body mass index [BMI] 60.0-69.9, adult	Diagnosis	ICD-10-CM
Z68.45	Body mass index [BMI] 70 or greater, adult	Diagnosis	ICD-10-CM
	Other Psychological Disorders		
F06.0	Psychotic disorder with hallucinations due to known physiological condition	Diagnosis	ICD-10-CM
F06.2	Psychotic disorder with delusions due to known physiological condition	Diagnosis	ICD-10-CM
F20.0	Paranoid schizophrenia	Diagnosis	ICD-10-CM
F20.1	Disorganized schizophrenia	Diagnosis	ICD-10-CM
F20.2	Catatonic schizophrenia	Diagnosis	ICD-10-CM
F20.3	Undifferentiated schizophrenia	Diagnosis	ICD-10-CM
F20.5	Residual schizophrenia	Diagnosis	ICD-10-CM
F20.81	Schizophreniform disorder	Diagnosis	ICD-10-CM
F20.89	Other schizophrenia	Diagnosis	ICD-10-CM
F20.9	Schizophrenia, unspecified	Diagnosis	ICD-10-CM
F21	Schizotypal disorder	Diagnosis	ICD-10-CM
F22	Delusional disorders	Diagnosis	ICD-10-CM
F23	Brief psychotic disorder	Diagnosis	ICD-10-CM
F24	Shared psychotic disorder	Diagnosis	ICD-10-CM
F25.0	Schizoaffective disorder, bipolar type	Diagnosis	ICD-10-CM
F25.1	Schizoaffective disorder, depressive type	Diagnosis	ICD-10-CM
F25.8	Other schizoaffective disorders	Diagnosis	ICD-10-CM
F25.9	Schizoaffective disorder, unspecified	Diagnosis	ICD-10-CM
F28	Other psychotic disorder not due to a substance or known physiological condition	Diagnosis	ICD-10-CM
F29	Unspecified psychosis not due to a substance or known physiological condition	Diagnosis	ICD-10-CM
F32.3	Major depressive disorder, single episode, severe with psychotic features	Diagnosis	ICD-10-CM
F33.3	Major depressive disorder, recurrent, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F44.89	Other dissociative and conversion disorders	Diagnosis	ICD-10-CM

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
	Major Surgical Procedures		
0016070	Bypass Cerebral Ventricle to Nasopharynx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0016071	Bypass Cerebral Ventricle to Mastoid Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0016072	Bypass Cerebral Ventricle to Atrium with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0016073	Bypass Cerebral Ventricle to Blood Vessel with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0016074	Bypass Cerebral Ventricle to Pleural Cavity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0016075	Bypass Cerebral Ventricle to Intestine with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0016076	Bypass Cerebral Ventricle to Peritoneal Cavity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0016077	Bypass Cerebral Ventricle to Urinary Tract with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0016078	Bypass Cerebral Ventricle to Bone Marrow with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001607A	Bypass Cerebral Ventricle to Subgaleal Space with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001607B	Bypass Cerebral Ventricle to Cerebral Cisterns with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160J0	Bypass Cerebral Ventricle to Nasopharynx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160J1	Bypass Cerebral Ventricle to Mastoid Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160J2	Bypass Cerebral Ventricle to Atrium with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160J3	Bypass Cerebral Ventricle to Blood Vessel with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160J4	Bypass Cerebral Ventricle to Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160J5	Bypass Cerebral Ventricle to Intestine with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160J6	Bypass Cerebral Ventricle to Peritoneal Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160J7	Bypass Cerebral Ventricle to Urinary Tract with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160J8	Bypass Cerebral Ventricle to Bone Marrow with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160JA	Bypass Cerebral Ventricle to Subgaleal Space with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160JB	Bypass Cerebral Ventricle to Cerebral Cisterns with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00160K0	Bypass Cerebral Ventricle to Nasopharynx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00160K1	Bypass Cerebral Ventricle to Mastoid Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160K2	Bypass Cerebral Ventricle to Atrium with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160K3	Bypass Cerebral Ventricle to Blood Vessel with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160K4	Bypass Cerebral Ventricle to Pleural Cavity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160K5	Bypass Cerebral Ventricle to Intestine with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160K6	Bypass Cerebral Ventricle to Peritoneal Cavity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160K7	Bypass Cerebral Ventricle to Urinary Tract with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160K8	Bypass Cerebral Ventricle to Bone Marrow with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160KA	Bypass Cerebral Ventricle to Subgaleal Space with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160KB	Bypass Cerebral Ventricle to Cerebral Cisterns with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00160ZB	Bypass Cerebral Ventricle to Cerebral Cisterns, Open Approach	PX	ICD-10-PCS
0016370	Bypass Cerebral Ventricle to Nasopharynx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0016371	Bypass Cerebral Ventricle to Mastoid Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0016372	Bypass Cerebral Ventricle to Atrium with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0016373	Bypass Cerebral Ventricle to Blood Vessel with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0016374	Bypass Cerebral Ventricle to Pleural Cavity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0016375	Bypass Cerebral Ventricle to Intestine with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0016376	Bypass Cerebral Ventricle to Peritoneal Cavity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0016377	Bypass Cerebral Ventricle to Urinary Tract with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0016378	Bypass Cerebral Ventricle to Bone Marrow with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001637A	Bypass Cerebral Ventricle to Subgaleal Space with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001637B	Bypass Cerebral Ventricle to Cerebral Cisterns with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163J0	Bypass Cerebral Ventricle to Nasopharynx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
00163J1	Bypass Cerebral Ventricle to Mastoid Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163J2	Bypass Cerebral Ventricle to Atrium with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163J3	Bypass Cerebral Ventricle to Blood Vessel with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163J4	Bypass Cerebral Ventricle to Pleural Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163J5	Bypass Cerebral Ventricle to Intestine with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163J6	Bypass Cerebral Ventricle to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163J7	Bypass Cerebral Ventricle to Urinary Tract with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163J8	Bypass Cerebral Ventricle to Bone Marrow with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163JA	Bypass Cerebral Ventricle to Subgaleal Space with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163JB	Bypass Cerebral Ventricle to Cerebral Cisterns with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163K0	Bypass Cerebral Ventricle to Nasopharynx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163K1	Bypass Cerebral Ventricle to Mastoid Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163K2	Bypass Cerebral Ventricle to Atrium with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163K3	Bypass Cerebral Ventricle to Blood Vessel with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163K4	Bypass Cerebral Ventricle to Pleural Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163K5	Bypass Cerebral Ventricle to Intestine with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163K6	Bypass Cerebral Ventricle to Peritoneal Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163K7	Bypass Cerebral Ventricle to Urinary Tract with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163K8	Bypass Cerebral Ventricle to Bone Marrow with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163KA	Bypass Cerebral Ventricle to Subgaleal Space with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163KB	Bypass Cerebral Ventricle to Cerebral Cisterns with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00163ZB	Bypass Cerebral Ventricle to Cerebral Cisterns, Percutaneous Approach	PX	ICD-10-PCS
0016470	Bypass Cerebral Ventricle to Nasopharynx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0016471	Bypass Cerebral Ventricle to Mastoid Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0016472	Bypass Cerebral Ventricle to Atrium with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0016473	Bypass Cerebral Ventricle to Blood Vessel with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0016474	Bypass Cerebral Ventricle to Pleural Cavity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0016475	Bypass Cerebral Ventricle to Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0016476	Bypass Cerebral Ventricle to Peritoneal Cavity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0016477	Bypass Cerebral Ventricle to Urinary Tract with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0016478	Bypass Cerebral Ventricle to Bone Marrow with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001647A	Bypass Cerebral Ventricle to Subgaleal Space with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001647B	Bypass Cerebral Ventricle to Cerebral Cisterns with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164J0	Bypass Cerebral Ventricle to Nasopharynx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164J1	Bypass Cerebral Ventricle to Mastoid Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164J2	Bypass Cerebral Ventricle to Atrium with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164J3	Bypass Cerebral Ventricle to Blood Vessel with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164J4	Bypass Cerebral Ventricle to Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164J5	Bypass Cerebral Ventricle to Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164J6	Bypass Cerebral Ventricle to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164J7	Bypass Cerebral Ventricle to Urinary Tract with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164J8	Bypass Cerebral Ventricle to Bone Marrow with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164JA	Bypass Cerebral Ventricle to Subgaleal Space with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164JB	Bypass Cerebral Ventricle to Cerebral Cisterns with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164K0	Bypass Cerebral Ventricle to Nasopharynx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00164K1	Bypass Cerebral Ventricle to Mastoid Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164K2	Bypass Cerebral Ventricle to Atrium with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164K3	Bypass Cerebral Ventricle to Blood Vessel with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164K4	Bypass Cerebral Ventricle to Pleural Cavity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164K5	Bypass Cerebral Ventricle to Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164K6	Bypass Cerebral Ventricle to Peritoneal Cavity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164K7	Bypass Cerebral Ventricle to Urinary Tract with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164K8	Bypass Cerebral Ventricle to Bone Marrow with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164KA	Bypass Cerebral Ventricle to Subgaleal Space with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164KB	Bypass Cerebral Ventricle to Cerebral Cisterns with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00164ZB	Bypass Cerebral Ventricle to Cerebral Cisterns, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U072	Bypass Spinal Canal to Atrium with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001U074	Bypass Spinal Canal to Pleural Cavity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001U076	Bypass Spinal Canal to Peritoneal Cavity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001U077	Bypass Spinal Canal to Urinary Tract with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001U079	Bypass Spinal Canal to Fallopian Tube with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001U0J2	Bypass Spinal Canal to Atrium with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
001U0J4	Bypass Spinal Canal to Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
001U0J6	Bypass Spinal Canal to Peritoneal Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
001U0J7	Bypass Spinal Canal to Urinary Tract with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
001U0J9	Bypass Spinal Canal to Fallopian Tube with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
001U0K2	Bypass Spinal Canal to Atrium with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001U0K4	Bypass Spinal Canal to Pleural Cavity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001U0K6	Bypass Spinal Canal to Peritoneal Cavity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
001U0K7	Bypass Spinal Canal to Urinary Tract with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001U0K9	Bypass Spinal Canal to Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
001U372	Bypass Spinal Canal to Atrium with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U374	Bypass Spinal Canal to Pleural Cavity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U376	Bypass Spinal Canal to Peritoneal Cavity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U377	Bypass Spinal Canal to Urinary Tract with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U379	Bypass Spinal Canal to Fallopian Tube with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U3J2	Bypass Spinal Canal to Atrium with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U3J4	Bypass Spinal Canal to Pleural Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U3J6	Bypass Spinal Canal to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U3J7	Bypass Spinal Canal to Urinary Tract with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U3J9	Bypass Spinal Canal to Fallopian Tube with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U3K2	Bypass Spinal Canal to Atrium with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U3K4	Bypass Spinal Canal to Pleural Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U3K6	Bypass Spinal Canal to Peritoneal Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U3K7	Bypass Spinal Canal to Urinary Tract with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U3K9	Bypass Spinal Canal to Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
001U472	Bypass Spinal Canal to Atrium with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U474	Bypass Spinal Canal to Pleural Cavity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U476	Bypass Spinal Canal to Peritoneal Cavity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U477	Bypass Spinal Canal to Urinary Tract with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U479	Bypass Spinal Canal to Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
001U4J2	Bypass Spinal Canal to Atrium with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U4J4	Bypass Spinal Canal to Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U4J6	Bypass Spinal Canal to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U4J7	Bypass Spinal Canal to Urinary Tract with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U4J9	Bypass Spinal Canal to Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U4K2	Bypass Spinal Canal to Atrium with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U4K4	Bypass Spinal Canal to Pleural Cavity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U4K6	Bypass Spinal Canal to Peritoneal Cavity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U4K7	Bypass Spinal Canal to Urinary Tract with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
001U4K9	Bypass Spinal Canal to Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00500Z3	Destruction of Brain using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
00500ZZ	Destruction of Brain, Open Approach	PX	ICD-10-PCS
00503Z3	Destruction of Brain using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
00503Z4	Destruction of Brain using Stereoelectroencephalographic Radiofrequency Ablation, Percutaneous Approach	PX	ICD-10-PCS
00503ZZ	Destruction of Brain, Percutaneous Approach	PX	ICD-10-PCS
00504Z3	Destruction of Brain using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00504ZZ	Destruction of Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00510ZZ	Destruction of Cerebral Meninges, Open Approach	PX	ICD-10-PCS
00513ZZ	Destruction of Cerebral Meninges, Percutaneous Approach	PX	ICD-10-PCS
00514ZZ	Destruction of Cerebral Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00520ZZ	Destruction of Dura Mater, Open Approach	PX	ICD-10-PCS
00523ZZ	Destruction of Dura Mater, Percutaneous Approach	PX	ICD-10-PCS
00524ZZ	Destruction of Dura Mater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00560ZZ	Destruction of Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00563ZZ	Destruction of Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00564ZZ	Destruction of Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00570ZZ	Destruction of Cerebral Hemisphere, Open Approach	PX	ICD-10-PCS
00573ZZ	Destruction of Cerebral Hemisphere, Percutaneous Approach	PX	ICD-10-PCS
00574ZZ	Destruction of Cerebral Hemisphere, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00580ZZ	Destruction of Basal Ganglia, Open Approach	PX	ICD-10-PCS
00583ZZ	Destruction of Basal Ganglia, Percutaneous Approach	PX	ICD-10-PCS
00584ZZ	Destruction of Basal Ganglia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00590ZZ	Destruction of Thalamus, Open Approach	PX	ICD-10-PCS
00593ZZ	Destruction of Thalamus, Percutaneous Approach	PX	ICD-10-PCS
00594ZZ	Destruction of Thalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005A0ZZ	Destruction of Hypothalamus, Open Approach	PX	ICD-10-PCS
005A3ZZ	Destruction of Hypothalamus, Percutaneous Approach	PX	ICD-10-PCS
005A4ZZ	Destruction of Hypothalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005B0ZZ	Destruction of Pons, Open Approach	PX	ICD-10-PCS
005B3ZZ	Destruction of Pons, Percutaneous Approach	PX	ICD-10-PCS
005B4ZZ	Destruction of Pons, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005C0ZZ	Destruction of Cerebellum, Open Approach	PX	ICD-10-PCS
005C3ZZ	Destruction of Cerebellum, Percutaneous Approach	PX	ICD-10-PCS
005C4ZZ	Destruction of Cerebellum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005D0ZZ	Destruction of Medulla Oblongata, Open Approach	PX	ICD-10-PCS
005D3ZZ	Destruction of Medulla Oblongata, Percutaneous Approach	PX	ICD-10-PCS
005D4ZZ	Destruction of Medulla Oblongata, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005F0ZZ	Destruction of Olfactory Nerve, Open Approach	PX	ICD-10-PCS
005F4ZZ	Destruction of Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005G0ZZ	Destruction of Optic Nerve, Open Approach	PX	ICD-10-PCS
005G4ZZ	Destruction of Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005H0ZZ	Destruction of Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
005H4ZZ	Destruction of Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005J0ZZ	Destruction of Trochlear Nerve, Open Approach	PX	ICD-10-PCS
005J4ZZ	Destruction of Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005K0ZZ	Destruction of Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
005K4ZZ	Destruction of Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005L0ZZ	Destruction of Abducens Nerve, Open Approach	PX	ICD-10-PCS
005L4ZZ	Destruction of Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005M0ZZ	Destruction of Facial Nerve, Open Approach	PX	ICD-10-PCS
005M4ZZ	Destruction of Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005N0ZZ	Destruction of Acoustic Nerve, Open Approach	PX	ICD-10-PCS
005N4ZZ	Destruction of Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005P0ZZ	Destruction of Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
005P4ZZ	Destruction of Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005Q0ZZ	Destruction of Vagus Nerve, Open Approach	PX	ICD-10-PCS
005Q4ZZ	Destruction of Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005R0ZZ	Destruction of Accessory Nerve, Open Approach	PX	ICD-10-PCS
005R4ZZ	Destruction of Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005S0ZZ	Destruction of Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
005S4ZZ	Destruction of Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005T0ZZ	Destruction of Spinal Meninges, Open Approach	PX	ICD-10-PCS
005T3ZZ	Destruction of Spinal Meninges, Percutaneous Approach	PX	ICD-10-PCS
005T4ZZ	Destruction of Spinal Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005W0Z3	Destruction of Cervical Spinal Cord using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
005W0ZZ	Destruction of Cervical Spinal Cord, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
005W3Z3	Destruction of Cervical Spinal Cord using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
005W3ZZ	Destruction of Cervical Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
005W4Z3	Destruction of Cervical Spinal Cord using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005W4ZZ	Destruction of Cervical Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005X0Z3	Destruction of Thoracic Spinal Cord using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
005X0ZZ	Destruction of Thoracic Spinal Cord, Open Approach	PX	ICD-10-PCS
005X3Z3	Destruction of Thoracic Spinal Cord using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
005X3ZZ	Destruction of Thoracic Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
005X4Z3	Destruction of Thoracic Spinal Cord using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005X4ZZ	Destruction of Thoracic Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005Y0Z3	Destruction of Lumbar Spinal Cord using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
005Y0ZZ	Destruction of Lumbar Spinal Cord, Open Approach	PX	ICD-10-PCS
005Y3Z3	Destruction of Lumbar Spinal Cord using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
005Y3ZZ	Destruction of Lumbar Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
005Y4Z3	Destruction of Lumbar Spinal Cord using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
005Y4ZZ	Destruction of Lumbar Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00760ZZ	Dilation of Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00763ZZ	Dilation of Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00764ZZ	Dilation of Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00800ZZ	Division of Brain, Open Approach	PX	ICD-10-PCS
00803ZZ	Division of Brain, Percutaneous Approach	PX	ICD-10-PCS
00804ZZ	Division of Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00870ZZ	Division of Cerebral Hemisphere, Open Approach	PX	ICD-10-PCS
00873ZZ	Division of Cerebral Hemisphere, Percutaneous Approach	PX	ICD-10-PCS
00874ZZ	Division of Cerebral Hemisphere, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00880ZZ	Division of Basal Ganglia, Open Approach	PX	ICD-10-PCS
00883ZZ	Division of Basal Ganglia, Percutaneous Approach	PX	ICD-10-PCS
00884ZZ	Division of Basal Ganglia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008F0ZZ	Division of Olfactory Nerve, Open Approach	PX	ICD-10-PCS
008F3ZZ	Division of Olfactory Nerve, Percutaneous Approach	PX	ICD-10-PCS
008F4ZZ	Division of Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008G0ZZ	Division of Optic Nerve, Open Approach	PX	ICD-10-PCS
008G3ZZ	Division of Optic Nerve, Percutaneous Approach	PX	ICD-10-PCS
008G4ZZ	Division of Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008H0ZZ	Division of Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
008H3ZZ	Division of Oculomotor Nerve, Percutaneous Approach	PX	ICD-10-PCS
008H4ZZ	Division of Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
008J0ZZ	Division of Trochlear Nerve, Open Approach	PX	ICD-10-PCS
008J3ZZ	Division of Trochlear Nerve, Percutaneous Approach	PX	ICD-10-PCS
008J4ZZ	Division of Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008K0ZZ	Division of Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
008K3ZZ	Division of Trigeminal Nerve, Percutaneous Approach	PX	ICD-10-PCS
008K4ZZ	Division of Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008L0ZZ	Division of Abducens Nerve, Open Approach	PX	ICD-10-PCS
008L3ZZ	Division of Abducens Nerve, Percutaneous Approach	PX	ICD-10-PCS
008L4ZZ	Division of Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008M0ZZ	Division of Facial Nerve, Open Approach	PX	ICD-10-PCS
008M3ZZ	Division of Facial Nerve, Percutaneous Approach	PX	ICD-10-PCS
008M4ZZ	Division of Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008N0ZZ	Division of Acoustic Nerve, Open Approach	PX	ICD-10-PCS
008N3ZZ	Division of Acoustic Nerve, Percutaneous Approach	PX	ICD-10-PCS
008N4ZZ	Division of Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008P0ZZ	Division of Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
008P3ZZ	Division of Glossopharyngeal Nerve, Percutaneous Approach	PX	ICD-10-PCS
008P4ZZ	Division of Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008Q0ZZ	Division of Vagus Nerve, Open Approach	PX	ICD-10-PCS
008Q3ZZ	Division of Vagus Nerve, Percutaneous Approach	PX	ICD-10-PCS
008Q4ZZ	Division of Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008R0ZZ	Division of Accessory Nerve, Open Approach	PX	ICD-10-PCS
008R3ZZ	Division of Accessory Nerve, Percutaneous Approach	PX	ICD-10-PCS
008R4ZZ	Division of Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008S0ZZ	Division of Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
008S3ZZ	Division of Hypoglossal Nerve, Percutaneous Approach	PX	ICD-10-PCS
008S4ZZ	Division of Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008W0ZZ	Division of Cervical Spinal Cord, Open Approach	PX	ICD-10-PCS
008W3ZZ	Division of Cervical Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
008W4ZZ	Division of Cervical Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008X0ZZ	Division of Thoracic Spinal Cord, Open Approach	PX	ICD-10-PCS
008X3ZZ	Division of Thoracic Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
008X4ZZ	Division of Thoracic Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
008Y0ZZ	Division of Lumbar Spinal Cord, Open Approach	PX	ICD-10-PCS
008Y3ZZ	Division of Lumbar Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
008Y4ZZ	Division of Lumbar Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009000Z	Drainage of Brain with Drainage Device, Open Approach	PX	ICD-10-PCS
00900ZZ	Drainage of Brain, Open Approach	PX	ICD-10-PCS
009030Z	Drainage of Brain with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
00903ZZ	Drainage of Brain, Percutaneous Approach	PX	ICD-10-PCS
009040Z	Drainage of Brain with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00904ZZ	Drainage of Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009100Z	Drainage of Cerebral Meninges with Drainage Device, Open Approach	PX	ICD-10-PCS
00910ZZ	Drainage of Cerebral Meninges, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
009140Z	Drainage of Cerebral Meninges with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00914ZZ	Drainage of Cerebral Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009200Z	Drainage of Dura Mater with Drainage Device, Open Approach	PX	ICD-10-PCS
00920ZZ	Drainage of Dura Mater, Open Approach	PX	ICD-10-PCS
009240Z	Drainage of Dura Mater with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00924ZZ	Drainage of Dura Mater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009300Z	Drainage of Intracranial Epidural Space with Drainage Device, Open Approach	PX	ICD-10-PCS
00930ZZ	Drainage of Intracranial Epidural Space, Open Approach	PX	ICD-10-PCS
009340Z	Drainage of Intracranial Epidural Space with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00934ZZ	Drainage of Intracranial Epidural Space, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009400Z	Drainage of Intracranial Subdural Space with Drainage Device, Open Approach	PX	ICD-10-PCS
00940ZZ	Drainage of Intracranial Subdural Space, Open Approach	PX	ICD-10-PCS
009440Z	Drainage of Intracranial Subdural Space with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00944ZZ	Drainage of Intracranial Subdural Space, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009500Z	Drainage of Intracranial Subarachnoid Space with Drainage Device, Open Approach	PX	ICD-10-PCS
00950ZZ	Drainage of Intracranial Subarachnoid Space, Open Approach	PX	ICD-10-PCS
009540Z	Drainage of Intracranial Subarachnoid Space with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00954ZZ	Drainage of Intracranial Subarachnoid Space, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009600Z	Drainage of Cerebral Ventricle with Drainage Device, Open Approach	PX	ICD-10-PCS
00960ZZ	Drainage of Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
009630Z	Drainage of Cerebral Ventricle with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
00963ZZ	Drainage of Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
009640Z	Drainage of Cerebral Ventricle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00964ZZ	Drainage of Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009700Z	Drainage of Cerebral Hemisphere with Drainage Device, Open Approach	PX	ICD-10-PCS
00970ZZ	Drainage of Cerebral Hemisphere, Open Approach	PX	ICD-10-PCS
009730Z	Drainage of Cerebral Hemisphere with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
00973ZZ	Drainage of Cerebral Hemisphere, Percutaneous Approach	PX	ICD-10-PCS
009740Z	Drainage of Cerebral Hemisphere with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00974ZZ	Drainage of Cerebral Hemisphere, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009800Z	Drainage of Basal Ganglia with Drainage Device, Open Approach	PX	ICD-10-PCS
00980ZZ	Drainage of Basal Ganglia, Open Approach	PX	ICD-10-PCS
009830Z	Drainage of Basal Ganglia with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
00983ZZ	Drainage of Basal Ganglia, Percutaneous Approach	PX	ICD-10-PCS
009840Z	Drainage of Basal Ganglia with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00984ZZ	Drainage of Basal Ganglia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009900Z	Drainage of Thalamus with Drainage Device, Open Approach	PX	ICD-10-PCS
00990ZZ	Drainage of Thalamus, Open Approach	PX	ICD-10-PCS
009930Z	Drainage of Thalamus with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
00993ZZ	Drainage of Thalamus, Percutaneous Approach	PX	ICD-10-PCS
009940Z	Drainage of Thalamus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00994ZZ	Drainage of Thalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009A00Z	Drainage of Hypothalamus with Drainage Device, Open Approach	PX	ICD-10-PCS
009A0ZZ	Drainage of Hypothalamus, Open Approach	PX	ICD-10-PCS
009A30Z	Drainage of Hypothalamus with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009A3ZZ	Drainage of Hypothalamus, Percutaneous Approach	PX	ICD-10-PCS
009A40Z	Drainage of Hypothalamus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009A4ZZ	Drainage of Hypothalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009B00Z	Drainage of Pons with Drainage Device, Open Approach	PX	ICD-10-PCS
009B0ZZ	Drainage of Pons, Open Approach	PX	ICD-10-PCS
009B30Z	Drainage of Pons with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009B3ZZ	Drainage of Pons, Percutaneous Approach	PX	ICD-10-PCS
009B40Z	Drainage of Pons with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009B4ZZ	Drainage of Pons, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009C00Z	Drainage of Cerebellum with Drainage Device, Open Approach	PX	ICD-10-PCS
009C0ZZ	Drainage of Cerebellum, Open Approach	PX	ICD-10-PCS
009C30Z	Drainage of Cerebellum with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009C3ZZ	Drainage of Cerebellum, Percutaneous Approach	PX	ICD-10-PCS
009C40Z	Drainage of Cerebellum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009C4ZZ	Drainage of Cerebellum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009D00Z	Drainage of Medulla Oblongata with Drainage Device, Open Approach	PX	ICD-10-PCS
009D0ZZ	Drainage of Medulla Oblongata, Open Approach	PX	ICD-10-PCS
009D30Z	Drainage of Medulla Oblongata with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009D3ZZ	Drainage of Medulla Oblongata, Percutaneous Approach	PX	ICD-10-PCS
009D40Z	Drainage of Medulla Oblongata with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009D4ZZ	Drainage of Medulla Oblongata, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009F00Z	Drainage of Olfactory Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009F0ZZ	Drainage of Olfactory Nerve, Open Approach	PX	ICD-10-PCS
009F30Z	Drainage of Olfactory Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009F3ZZ	Drainage of Olfactory Nerve, Percutaneous Approach	PX	ICD-10-PCS
009F40Z	Drainage of Olfactory Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009F4ZZ	Drainage of Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009G00Z	Drainage of Optic Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009G0ZZ	Drainage of Optic Nerve, Open Approach	PX	ICD-10-PCS
009G30Z	Drainage of Optic Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009G3ZZ	Drainage of Optic Nerve, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
009G40Z	Drainage of Optic Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009G4ZZ	Drainage of Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009H00Z	Drainage of Oculomotor Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009H0ZZ	Drainage of Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
009H30Z	Drainage of Oculomotor Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009H3ZZ	Drainage of Oculomotor Nerve, Percutaneous Approach	PX	ICD-10-PCS
009H40Z	Drainage of Oculomotor Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009H4ZZ	Drainage of Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009J00Z	Drainage of Trochlear Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009J0ZZ	Drainage of Trochlear Nerve, Open Approach	PX	ICD-10-PCS
009J30Z	Drainage of Trochlear Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009J3ZZ	Drainage of Trochlear Nerve, Percutaneous Approach	PX	ICD-10-PCS
009J40Z	Drainage of Trochlear Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009J4ZZ	Drainage of Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009K00Z	Drainage of Trigeminal Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009K0ZZ	Drainage of Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
009K30Z	Drainage of Trigeminal Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009K3ZZ	Drainage of Trigeminal Nerve, Percutaneous Approach	PX	ICD-10-PCS
009K40Z	Drainage of Trigeminal Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009K4ZZ	Drainage of Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009L00Z	Drainage of Abducens Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009L0ZZ	Drainage of Abducens Nerve, Open Approach	PX	ICD-10-PCS
009L30Z	Drainage of Abducens Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009L3ZZ	Drainage of Abducens Nerve, Percutaneous Approach	PX	ICD-10-PCS
009L40Z	Drainage of Abducens Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009L4ZZ	Drainage of Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009M00Z	Drainage of Facial Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009M0ZZ	Drainage of Facial Nerve, Open Approach	PX	ICD-10-PCS
009M30Z	Drainage of Facial Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009M3ZZ	Drainage of Facial Nerve, Percutaneous Approach	PX	ICD-10-PCS
009M40Z	Drainage of Facial Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009M4ZZ	Drainage of Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009N00Z	Drainage of Acoustic Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009N0ZZ	Drainage of Acoustic Nerve, Open Approach	PX	ICD-10-PCS
009N30Z	Drainage of Acoustic Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009N3ZZ	Drainage of Acoustic Nerve, Percutaneous Approach	PX	ICD-10-PCS
009N40Z	Drainage of Acoustic Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009N4ZZ	Drainage of Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
009P00Z	Drainage of Glossopharyngeal Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009P0ZZ	Drainage of Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
009P30Z	Drainage of Glossopharyngeal Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009P3ZZ	Drainage of Glossopharyngeal Nerve, Percutaneous Approach	PX	ICD-10-PCS
009P40Z	Drainage of Glossopharyngeal Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009P4ZZ	Drainage of Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009Q00Z	Drainage of Vagus Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009Q0ZZ	Drainage of Vagus Nerve, Open Approach	PX	ICD-10-PCS
009Q30Z	Drainage of Vagus Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009Q3ZZ	Drainage of Vagus Nerve, Percutaneous Approach	PX	ICD-10-PCS
009Q40Z	Drainage of Vagus Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009Q4ZZ	Drainage of Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009R00Z	Drainage of Accessory Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009R0ZZ	Drainage of Accessory Nerve, Open Approach	PX	ICD-10-PCS
009R30Z	Drainage of Accessory Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009R3ZZ	Drainage of Accessory Nerve, Percutaneous Approach	PX	ICD-10-PCS
009R40Z	Drainage of Accessory Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009R4ZZ	Drainage of Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009S00Z	Drainage of Hypoglossal Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
009S0ZZ	Drainage of Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
009S30Z	Drainage of Hypoglossal Nerve with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
009S3ZZ	Drainage of Hypoglossal Nerve, Percutaneous Approach	PX	ICD-10-PCS
009S40Z	Drainage of Hypoglossal Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009S4ZZ	Drainage of Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009T00Z	Drainage of Spinal Meninges with Drainage Device, Open Approach	PX	ICD-10-PCS
009T0ZZ	Drainage of Spinal Meninges, Open Approach	PX	ICD-10-PCS
009T40Z	Drainage of Spinal Meninges with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009T4ZZ	Drainage of Spinal Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009U00Z	Drainage of Spinal Canal with Drainage Device, Open Approach	PX	ICD-10-PCS
009U0ZZ	Drainage of Spinal Canal, Open Approach	PX	ICD-10-PCS
009U40Z	Drainage of Spinal Canal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009U4ZZ	Drainage of Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009W00Z	Drainage of Cervical Spinal Cord with Drainage Device, Open Approach	PX	ICD-10-PCS
009W0ZZ	Drainage of Cervical Spinal Cord, Open Approach	PX	ICD-10-PCS
009W40Z	Drainage of Cervical Spinal Cord with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009W4ZZ	Drainage of Cervical Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009X00Z	Drainage of Thoracic Spinal Cord with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
009X0ZZ	Drainage of Thoracic Spinal Cord, Open Approach	PX	ICD-10-PCS
009X40Z	Drainage of Thoracic Spinal Cord with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009X4ZZ	Drainage of Thoracic Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009Y00Z	Drainage of Lumbar Spinal Cord with Drainage Device, Open Approach	PX	ICD-10-PCS
009Y0ZZ	Drainage of Lumbar Spinal Cord, Open Approach	PX	ICD-10-PCS
009Y40Z	Drainage of Lumbar Spinal Cord with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
009Y4ZZ	Drainage of Lumbar Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00B00ZZ	Excision of Brain, Open Approach	PX	ICD-10-PCS
00B03ZZ	Excision of Brain, Percutaneous Approach	PX	ICD-10-PCS
00B04ZZ	Excision of Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00B10ZZ	Excision of Cerebral Meninges, Open Approach	PX	ICD-10-PCS
00B13ZZ	Excision of Cerebral Meninges, Percutaneous Approach	PX	ICD-10-PCS
00B14ZZ	Excision of Cerebral Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00B20ZZ	Excision of Dura Mater, Open Approach	PX	ICD-10-PCS
00B23ZZ	Excision of Dura Mater, Percutaneous Approach	PX	ICD-10-PCS
00B24ZZ	Excision of Dura Mater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00B60ZZ	Excision of Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00B63ZZ	Excision of Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00B64ZZ	Excision of Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00B70ZZ	Excision of Cerebral Hemisphere, Open Approach	PX	ICD-10-PCS
00B73ZZ	Excision of Cerebral Hemisphere, Percutaneous Approach	PX	ICD-10-PCS
00B74ZZ	Excision of Cerebral Hemisphere, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00B80ZZ	Excision of Basal Ganglia, Open Approach	PX	ICD-10-PCS
00B83ZZ	Excision of Basal Ganglia, Percutaneous Approach	PX	ICD-10-PCS
00B84ZZ	Excision of Basal Ganglia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00B90ZZ	Excision of Thalamus, Open Approach	PX	ICD-10-PCS
00B93ZZ	Excision of Thalamus, Percutaneous Approach	PX	ICD-10-PCS
00B94ZZ	Excision of Thalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BA0ZZ	Excision of Hypothalamus, Open Approach	PX	ICD-10-PCS
00BA3ZZ	Excision of Hypothalamus, Percutaneous Approach	PX	ICD-10-PCS
00BA4ZZ	Excision of Hypothalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BB0ZZ	Excision of Pons, Open Approach	PX	ICD-10-PCS
00BB3ZZ	Excision of Pons, Percutaneous Approach	PX	ICD-10-PCS
00BB4ZZ	Excision of Pons, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BC0ZZ	Excision of Cerebellum, Open Approach	PX	ICD-10-PCS
00BC3ZZ	Excision of Cerebellum, Percutaneous Approach	PX	ICD-10-PCS
00BC4ZZ	Excision of Cerebellum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BD0ZZ	Excision of Medulla Oblongata, Open Approach	PX	ICD-10-PCS
00BD3ZZ	Excision of Medulla Oblongata, Percutaneous Approach	PX	ICD-10-PCS
00BD4ZZ	Excision of Medulla Oblongata, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BF0ZZ	Excision of Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00BF3ZZ	Excision of Olfactory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BF4ZZ	Excision of Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00BG0ZZ	Excision of Optic Nerve, Open Approach	PX	ICD-10-PCS
00BG3ZZ	Excision of Optic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BG4ZZ	Excision of Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BH0ZZ	Excision of Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00BH3ZZ	Excision of Oculomotor Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BH4ZZ	Excision of Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BJ0ZZ	Excision of Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00BJ3ZZ	Excision of Trochlear Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BJ4ZZ	Excision of Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BK0ZZ	Excision of Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00BK3ZZ	Excision of Trigeminal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BK4ZZ	Excision of Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BL0ZZ	Excision of Abducens Nerve, Open Approach	PX	ICD-10-PCS
00BL3ZZ	Excision of Abducens Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BL4ZZ	Excision of Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BM0ZZ	Excision of Facial Nerve, Open Approach	PX	ICD-10-PCS
00BM3ZZ	Excision of Facial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BM4ZZ	Excision of Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BN0ZZ	Excision of Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00BN3ZZ	Excision of Acoustic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BN4ZZ	Excision of Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BP0ZZ	Excision of Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00BP3ZZ	Excision of Glossopharyngeal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BP4ZZ	Excision of Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BQ0ZZ	Excision of Vagus Nerve, Open Approach	PX	ICD-10-PCS
00BQ3ZZ	Excision of Vagus Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BQ4ZZ	Excision of Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BR0ZZ	Excision of Accessory Nerve, Open Approach	PX	ICD-10-PCS
00BR3ZZ	Excision of Accessory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BR4ZZ	Excision of Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BS0ZZ	Excision of Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00BS3ZZ	Excision of Hypoglossal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00BS4ZZ	Excision of Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BT0ZZ	Excision of Spinal Meninges, Open Approach	PX	ICD-10-PCS
00BT3ZZ	Excision of Spinal Meninges, Percutaneous Approach	PX	ICD-10-PCS
00BT4ZZ	Excision of Spinal Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BW0ZZ	Excision of Cervical Spinal Cord, Open Approach	PX	ICD-10-PCS
00BW3ZZ	Excision of Cervical Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00BW4ZZ	Excision of Cervical Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BX0ZZ	Excision of Thoracic Spinal Cord, Open Approach	PX	ICD-10-PCS
00BX3ZZ	Excision of Thoracic Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00BX4ZZ	Excision of Thoracic Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00BY0ZZ	Excision of Lumbar Spinal Cord, Open Approach	PX	ICD-10-PCS
00BY3ZZ	Excision of Lumbar Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00BY4ZZ	Excision of Lumbar Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00C00ZZ	Extirpation of Matter from Brain, Open Approach	PX	ICD-10-PCS
00C03ZZ	Extirpation of Matter from Brain, Percutaneous Approach	PX	ICD-10-PCS
00C04ZZ	Extirpation of Matter from Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00C10ZZ	Extirpation of Matter from Cerebral Meninges, Open Approach	PX	ICD-10-PCS
00C13ZZ	Extirpation of Matter from Cerebral Meninges, Percutaneous Approach	PX	ICD-10-PCS
00C14ZZ	Extirpation of Matter from Cerebral Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00C20ZZ	Extirpation of Matter from Dura Mater, Open Approach	PX	ICD-10-PCS
00C23ZZ	Extirpation of Matter from Dura Mater, Percutaneous Approach	PX	ICD-10-PCS
00C24ZZ	Extirpation of Matter from Dura Mater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00C30ZZ	Extirpation of Matter from Intracranial Epidural Space, Open Approach	PX	ICD-10-PCS
00C33ZZ	Extirpation of Matter from Intracranial Epidural Space, Percutaneous Approach	PX	ICD-10-PCS
00C34ZZ	Extirpation of Matter from Intracranial Epidural Space, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00C40ZZ	Extirpation of Matter from Intracranial Subdural Space, Open Approach	PX	ICD-10-PCS
00C43ZZ	Extirpation of Matter from Intracranial Subdural Space, Percutaneous Approach	PX	ICD-10-PCS
00C44ZZ	Extirpation of Matter from Intracranial Subdural Space, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00C50ZZ	Extirpation of Matter from Intracranial Subarachnoid Space, Open Approach	PX	ICD-10-PCS
00C53ZZ	Extirpation of Matter from Intracranial Subarachnoid Space, Percutaneous Approach	PX	ICD-10-PCS
00C54ZZ	Extirpation of Matter from Intracranial Subarachnoid Space, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00C60ZZ	Extirpation of Matter from Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00C63ZZ	Extirpation of Matter from Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00C64ZZ	Extirpation of Matter from Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00C70ZZ	Extirpation of Matter from Cerebral Hemisphere, Open Approach	PX	ICD-10-PCS
00C73ZZ	Extirpation of Matter from Cerebral Hemisphere, Percutaneous Approach	PX	ICD-10-PCS
00C74ZZ	Extirpation of Matter from Cerebral Hemisphere, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00C80ZZ	Extirpation of Matter from Basal Ganglia, Open Approach	PX	ICD-10-PCS
00C83ZZ	Extirpation of Matter from Basal Ganglia, Percutaneous Approach	PX	ICD-10-PCS
00C84ZZ	Extirpation of Matter from Basal Ganglia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00C90ZZ	Extirpation of Matter from Thalamus, Open Approach	PX	ICD-10-PCS
00C93ZZ	Extirpation of Matter from Thalamus, Percutaneous Approach	PX	ICD-10-PCS
00C94ZZ	Extirpation of Matter from Thalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CA0ZZ	Extirpation of Matter from Hypothalamus, Open Approach	PX	ICD-10-PCS
00CA3ZZ	Extirpation of Matter from Hypothalamus, Percutaneous Approach	PX	ICD-10-PCS
00CA4ZZ	Extirpation of Matter from Hypothalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CB0ZZ	Extirpation of Matter from Pons, Open Approach	PX	ICD-10-PCS
00CB3ZZ	Extirpation of Matter from Pons, Percutaneous Approach	PX	ICD-10-PCS
00CB4ZZ	Extirpation of Matter from Pons, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CC0ZZ	Extirpation of Matter from Cerebellum, Open Approach	PX	ICD-10-PCS
00CC3ZZ	Extirpation of Matter from Cerebellum, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00CC4ZZ	Extirpation of Matter from Cerebellum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CD0ZZ	Extirpation of Matter from Medulla Oblongata, Open Approach	PX	ICD-10-PCS
00CD3ZZ	Extirpation of Matter from Medulla Oblongata, Percutaneous Approach	PX	ICD-10-PCS
00CD4ZZ	Extirpation of Matter from Medulla Oblongata, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CF0ZZ	Extirpation of Matter from Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00CF3ZZ	Extirpation of Matter from Olfactory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CF4ZZ	Extirpation of Matter from Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CG0ZZ	Extirpation of Matter from Optic Nerve, Open Approach	PX	ICD-10-PCS
00CG3ZZ	Extirpation of Matter from Optic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CG4ZZ	Extirpation of Matter from Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CH0ZZ	Extirpation of Matter from Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00CH3ZZ	Extirpation of Matter from Oculomotor Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CH4ZZ	Extirpation of Matter from Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CJ0ZZ	Extirpation of Matter from Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00CJ3ZZ	Extirpation of Matter from Trochlear Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CJ4ZZ	Extirpation of Matter from Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CK0ZZ	Extirpation of Matter from Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00CK3ZZ	Extirpation of Matter from Trigeminal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CK4ZZ	Extirpation of Matter from Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CL0ZZ	Extirpation of Matter from Abducens Nerve, Open Approach	PX	ICD-10-PCS
00CL3ZZ	Extirpation of Matter from Abducens Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CL4ZZ	Extirpation of Matter from Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CM0ZZ	Extirpation of Matter from Facial Nerve, Open Approach	PX	ICD-10-PCS
00CM3ZZ	Extirpation of Matter from Facial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CM4ZZ	Extirpation of Matter from Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CN0ZZ	Extirpation of Matter from Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00CN3ZZ	Extirpation of Matter from Acoustic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CN4ZZ	Extirpation of Matter from Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CP0ZZ	Extirpation of Matter from Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00CP3ZZ	Extirpation of Matter from Glossopharyngeal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CP4ZZ	Extirpation of Matter from Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CQ0ZZ	Extirpation of Matter from Vagus Nerve, Open Approach	PX	ICD-10-PCS
00CQ3ZZ	Extirpation of Matter from Vagus Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CQ4ZZ	Extirpation of Matter from Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CR0ZZ	Extirpation of Matter from Accessory Nerve, Open Approach	PX	ICD-10-PCS
00CR3ZZ	Extirpation of Matter from Accessory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00CR4ZZ	Extirpation of Matter from Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CS0ZZ	Extirpation of Matter from Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00CS3ZZ	Extirpation of Matter from Hypoglossal Nerve, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00CS4ZZ	Extirpation of Matter from Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CT0ZZ	Extirpation of Matter from Spinal Meninges, Open Approach	PX	ICD-10-PCS
00CT3ZZ	Extirpation of Matter from Spinal Meninges, Percutaneous Approach	PX	ICD-10-PCS
00CT4ZZ	Extirpation of Matter from Spinal Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CU0ZZ	Extirpation of Matter from Spinal Canal, Open Approach	PX	ICD-10-PCS
00CU3ZZ	Extirpation of Matter from Spinal Canal, Percutaneous Approach	PX	ICD-10-PCS
00CU4ZZ	Extirpation of Matter from Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CW0ZZ	Extirpation of Matter from Cervical Spinal Cord, Open Approach	PX	ICD-10-PCS
00CW3ZZ	Extirpation of Matter from Cervical Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00CW4ZZ	Extirpation of Matter from Cervical Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CX0ZZ	Extirpation of Matter from Thoracic Spinal Cord, Open Approach	PX	ICD-10-PCS
00CX3ZZ	Extirpation of Matter from Thoracic Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00CX4ZZ	Extirpation of Matter from Thoracic Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00CY0ZZ	Extirpation of Matter from Lumbar Spinal Cord, Open Approach	PX	ICD-10-PCS
00CY3ZZ	Extirpation of Matter from Lumbar Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00CY4ZZ	Extirpation of Matter from Lumbar Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00D00ZZ	Extraction of Brain, Open Approach	PX	ICD-10-PCS
00D03ZZ	Extraction of Brain, Percutaneous Approach	PX	ICD-10-PCS
00D04ZZ	Extraction of Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00D10ZZ	Extraction of Cerebral Meninges, Open Approach	PX	ICD-10-PCS
00D13ZZ	Extraction of Cerebral Meninges, Percutaneous Approach	PX	ICD-10-PCS
00D14ZZ	Extraction of Cerebral Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00D20ZZ	Extraction of Dura Mater, Open Approach	PX	ICD-10-PCS
00D23ZZ	Extraction of Dura Mater, Percutaneous Approach	PX	ICD-10-PCS
00D24ZZ	Extraction of Dura Mater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00D70ZZ	Extraction of Cerebral Hemisphere, Open Approach	PX	ICD-10-PCS
00D73ZZ	Extraction of Cerebral Hemisphere, Percutaneous Approach	PX	ICD-10-PCS
00D74ZZ	Extraction of Cerebral Hemisphere, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DC0ZZ	Extraction of Cerebellum, Open Approach	PX	ICD-10-PCS
00DC3ZZ	Extraction of Cerebellum, Percutaneous Approach	PX	ICD-10-PCS
00DC4ZZ	Extraction of Cerebellum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DF0ZZ	Extraction of Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00DF3ZZ	Extraction of Olfactory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DF4ZZ	Extraction of Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DG0ZZ	Extraction of Optic Nerve, Open Approach	PX	ICD-10-PCS
00DG3ZZ	Extraction of Optic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DG4ZZ	Extraction of Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DH0ZZ	Extraction of Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00DH3ZZ	Extraction of Oculomotor Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DH4ZZ	Extraction of Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00DJ0ZZ	Extraction of Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00DJ3ZZ	Extraction of Trochlear Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DJ4ZZ	Extraction of Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DK0ZZ	Extraction of Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00DK3ZZ	Extraction of Trigeminal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DK4ZZ	Extraction of Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DL0ZZ	Extraction of Abducens Nerve, Open Approach	PX	ICD-10-PCS
00DL3ZZ	Extraction of Abducens Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DL4ZZ	Extraction of Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DM0ZZ	Extraction of Facial Nerve, Open Approach	PX	ICD-10-PCS
00DM3ZZ	Extraction of Facial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DM4ZZ	Extraction of Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DN0ZZ	Extraction of Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00DN3ZZ	Extraction of Acoustic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DN4ZZ	Extraction of Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DP0ZZ	Extraction of Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00DP3ZZ	Extraction of Glossopharyngeal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DP4ZZ	Extraction of Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DQ0ZZ	Extraction of Vagus Nerve, Open Approach	PX	ICD-10-PCS
00DQ3ZZ	Extraction of Vagus Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DQ4ZZ	Extraction of Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DR0ZZ	Extraction of Accessory Nerve, Open Approach	PX	ICD-10-PCS
00DR3ZZ	Extraction of Accessory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DR4ZZ	Extraction of Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DS0ZZ	Extraction of Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00DS3ZZ	Extraction of Hypoglossal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00DS4ZZ	Extraction of Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00DT0ZZ	Extraction of Spinal Meninges, Open Approach	PX	ICD-10-PCS
00DT3ZZ	Extraction of Spinal Meninges, Percutaneous Approach	PX	ICD-10-PCS
00DT4ZZ	Extraction of Spinal Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00F30ZZ	Fragmentation in Intracranial Epidural Space, Open Approach	PX	ICD-10-PCS
00F33ZZ	Fragmentation in Intracranial Epidural Space, Percutaneous Approach	PX	ICD-10-PCS
00F34ZZ	Fragmentation in Intracranial Epidural Space, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00F40ZZ	Fragmentation in Intracranial Subdural Space, Open Approach	PX	ICD-10-PCS
00F43ZZ	Fragmentation in Intracranial Subdural Space, Percutaneous Approach	PX	ICD-10-PCS
00F44ZZ	Fragmentation in Intracranial Subdural Space, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00F50ZZ	Fragmentation in Intracranial Subarachnoid Space, Open Approach	PX	ICD-10-PCS
00F53ZZ	Fragmentation in Intracranial Subarachnoid Space, Percutaneous Approach	PX	ICD-10-PCS
00F54ZZ	Fragmentation in Intracranial Subarachnoid Space, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00F60ZZ	Fragmentation in Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00F63ZZ	Fragmentation in Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00F64ZZ	Fragmentation in Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00FU0ZZ	Fragmentation in Spinal Canal, Open Approach	PX	ICD-10-PCS
00FU3ZZ	Fragmentation in Spinal Canal, Percutaneous Approach	PX	ICD-10-PCS
00FU4ZZ	Fragmentation in Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00FUXZZ	Fragmentation in Spinal Canal, External Approach	PX	ICD-10-PCS
00H001Z	Insertion of Radioactive Element into Brain, Open Approach	PX	ICD-10-PCS
00H003Z	Insertion of Infusion Device into Brain, Open Approach	PX	ICD-10-PCS
00H004Z	Insertion of Radioactive Element, Cesium-131 Collagen Implant into Brain, Open Approach	PX	ICD-10-PCS
00H005Z	Insertion of radioactive element, palladium-103 collagen implant into brain, open approach	PX	ICD-10-PCS
00H00MZ	Insertion of Neurostimulator Lead into Brain, Open Approach	PX	ICD-10-PCS
00H00YZ	Insertion of Other Device into Brain, Open Approach	PX	ICD-10-PCS
00H033Z	Insertion of Infusion Device into Brain, Percutaneous Approach	PX	ICD-10-PCS
00H03MZ	Insertion of Neurostimulator Lead into Brain, Percutaneous Approach	PX	ICD-10-PCS
00H03YZ	Insertion of Other Device into Brain, Percutaneous Approach	PX	ICD-10-PCS
00H041Z	Insertion of Radioactive Element into Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00H043Z	Insertion of Infusion Device into Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00H04MZ	Insertion of Neurostimulator Lead into Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00H04YZ	Insertion of Other Device into Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00H601Z	Insertion of Radioactive Element into Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00H603Z	Insertion of Infusion Device into Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00H60MZ	Insertion of Neurostimulator Lead into Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00H60YZ	Insertion of Other Device into Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00H633Z	Insertion of Infusion Device into Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00H63MZ	Insertion of Neurostimulator Lead into Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00H63YZ	Insertion of Other Device into Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00H641Z	Insertion of Radioactive Element into Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00H643Z	Insertion of Infusion Device into Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00H64MZ	Insertion of Neurostimulator Lead into Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00H64YZ	Insertion of Other Device into Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HE01Z	Insertion of Radioactive Element into Cranial Nerve, Open Approach	PX	ICD-10-PCS
00HE03Z	Insertion of Infusion Device into Cranial Nerve, Open Approach	PX	ICD-10-PCS
00HE0MZ	Insertion of Neurostimulator Lead into Cranial Nerve, Open Approach	PX	ICD-10-PCS
00HE0YZ	Insertion of Other Device into Cranial Nerve, Open Approach	PX	ICD-10-PCS
00HE33Z	Insertion of Infusion Device into Cranial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00HE3MZ	Insertion of Neurostimulator Lead into Cranial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00HE3YZ	Insertion of Other Device into Cranial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00HE41Z	Insertion of Radioactive Element into Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00HE43Z	Insertion of Infusion Device into Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HE4MZ	Insertion of Neurostimulator Lead into Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HE4YZ	Insertion of Other Device into Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HU01Z	Insertion of Radioactive Element into Spinal Canal, Open Approach	PX	ICD-10-PCS
00HU03Z	Insertion of Infusion Device into Spinal Canal, Open Approach	PX	ICD-10-PCS
00HU0MZ	Insertion of Neurostimulator Lead into Spinal Canal, Open Approach	PX	ICD-10-PCS
00HU0YZ	Insertion of Other Device into Spinal Canal, Open Approach	PX	ICD-10-PCS
00HU3MZ	Insertion of Neurostimulator Lead into Spinal Canal, Percutaneous Approach	PX	ICD-10-PCS
00HU41Z	Insertion of Radioactive Element into Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HU43Z	Insertion of Infusion Device into Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HU4MZ	Insertion of Neurostimulator Lead into Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HU4YZ	Insertion of Other Device into Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HV01Z	Insertion of Radioactive Element into Spinal Cord, Open Approach	PX	ICD-10-PCS
00HV03Z	Insertion of Infusion Device into Spinal Cord, Open Approach	PX	ICD-10-PCS
00HV0MZ	Insertion of Neurostimulator Lead into Spinal Cord, Open Approach	PX	ICD-10-PCS
00HV0YZ	Insertion of Other Device into Spinal Cord, Open Approach	PX	ICD-10-PCS
00HV3MZ	Insertion of Neurostimulator Lead into Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00HV3YZ	Insertion of Other Device into Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00HV41Z	Insertion of Radioactive Element into Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HV43Z	Insertion of Infusion Device into Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HV4MZ	Insertion of Neurostimulator Lead into Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00HV4YZ	Insertion of Other Device into Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00N00ZZ	Release Brain, Open Approach	PX	ICD-10-PCS
00N03ZZ	Release Brain, Percutaneous Approach	PX	ICD-10-PCS
00N04ZZ	Release Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00N10ZZ	Release Cerebral Meninges, Open Approach	PX	ICD-10-PCS
00N13ZZ	Release Cerebral Meninges, Percutaneous Approach	PX	ICD-10-PCS
00N14ZZ	Release Cerebral Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00N20ZZ	Release Dura Mater, Open Approach	PX	ICD-10-PCS
00N23ZZ	Release Dura Mater, Percutaneous Approach	PX	ICD-10-PCS
00N24ZZ	Release Dura Mater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00N60ZZ	Release Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00N63ZZ	Release Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00N64ZZ	Release Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00N70ZZ	Release Cerebral Hemisphere, Open Approach	PX	ICD-10-PCS
00N73ZZ	Release Cerebral Hemisphere, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00N74ZZ	Release Cerebral Hemisphere, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00N80ZZ	Release Basal Ganglia, Open Approach	PX	ICD-10-PCS
00N83ZZ	Release Basal Ganglia, Percutaneous Approach	PX	ICD-10-PCS
00N84ZZ	Release Basal Ganglia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00N90ZZ	Release Thalamus, Open Approach	PX	ICD-10-PCS
00N93ZZ	Release Thalamus, Percutaneous Approach	PX	ICD-10-PCS
00N94ZZ	Release Thalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NA0ZZ	Release Hypothalamus, Open Approach	PX	ICD-10-PCS
00NA3ZZ	Release Hypothalamus, Percutaneous Approach	PX	ICD-10-PCS
00NA4ZZ	Release Hypothalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NB0ZZ	Release Pons, Open Approach	PX	ICD-10-PCS
00NB3ZZ	Release Pons, Percutaneous Approach	PX	ICD-10-PCS
00NB4ZZ	Release Pons, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NC0ZZ	Release Cerebellum, Open Approach	PX	ICD-10-PCS
00NC3ZZ	Release Cerebellum, Percutaneous Approach	PX	ICD-10-PCS
00NC4ZZ	Release Cerebellum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00ND0ZZ	Release Medulla Oblongata, Open Approach	PX	ICD-10-PCS
00ND3ZZ	Release Medulla Oblongata, Percutaneous Approach	PX	ICD-10-PCS
00ND4ZZ	Release Medulla Oblongata, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NF0ZZ	Release Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00NF3ZZ	Release Olfactory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NF4ZZ	Release Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NG0ZZ	Release Optic Nerve, Open Approach	PX	ICD-10-PCS
00NG3ZZ	Release Optic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NG4ZZ	Release Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NH0ZZ	Release Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00NH3ZZ	Release Oculomotor Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NH4ZZ	Release Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NJ0ZZ	Release Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00NJ3ZZ	Release Trochlear Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NJ4ZZ	Release Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NK0ZZ	Release Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00NK3ZZ	Release Trigeminal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NK4ZZ	Release Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NL0ZZ	Release Abducens Nerve, Open Approach	PX	ICD-10-PCS
00NL3ZZ	Release Abducens Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NL4ZZ	Release Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NM0ZZ	Release Facial Nerve, Open Approach	PX	ICD-10-PCS
00NM3ZZ	Release Facial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NM4ZZ	Release Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NN0ZZ	Release Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00NN3ZZ	Release Acoustic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NN4ZZ	Release Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NP0ZZ	Release Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00NP3ZZ	Release Glossopharyngeal Nerve, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00NP4ZZ	Release Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NQ0ZZ	Release Vagus Nerve, Open Approach	PX	ICD-10-PCS
00NQ3ZZ	Release Vagus Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NQ4ZZ	Release Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NR0ZZ	Release Accessory Nerve, Open Approach	PX	ICD-10-PCS
00NR3ZZ	Release Accessory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NR4ZZ	Release Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NS0ZZ	Release Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00NS3ZZ	Release Hypoglossal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00NS4ZZ	Release Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NT0ZZ	Release Spinal Meninges, Open Approach	PX	ICD-10-PCS
00NT3ZZ	Release Spinal Meninges, Percutaneous Approach	PX	ICD-10-PCS
00NT4ZZ	Release Spinal Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NW0ZZ	Release Cervical Spinal Cord, Open Approach	PX	ICD-10-PCS
00NW3ZZ	Release Cervical Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00NW4ZZ	Release Cervical Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NX0ZZ	Release Thoracic Spinal Cord, Open Approach	PX	ICD-10-PCS
00NX3ZZ	Release Thoracic Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00NX4ZZ	Release Thoracic Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00NY0ZZ	Release Lumbar Spinal Cord, Open Approach	PX	ICD-10-PCS
00NY3ZZ	Release Lumbar Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00NY4ZZ	Release Lumbar Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P000Z	Removal of Drainage Device from Brain, Open Approach	PX	ICD-10-PCS
00P002Z	Removal of Monitoring Device from Brain, Open Approach	PX	ICD-10-PCS
00P003Z	Removal of Infusion Device from Brain, Open Approach	PX	ICD-10-PCS
00P007Z	Removal of Autologous Tissue Substitute from Brain, Open Approach	PX	ICD-10-PCS
00P00JZ	Removal of Synthetic Substitute from Brain, Open Approach	PX	ICD-10-PCS
00P00KZ	Removal of Nonautologous Tissue Substitute from Brain, Open Approach	PX	ICD-10-PCS
00P00MZ	Removal of Neurostimulator Lead from Brain, Open Approach	PX	ICD-10-PCS
00P00YZ	Removal of Other Device from Brain, Open Approach	PX	ICD-10-PCS
00P037Z	Removal of Autologous Tissue Substitute from Brain, Percutaneous Approach	PX	ICD-10-PCS
00P03JZ	Removal of Synthetic Substitute from Brain, Percutaneous Approach	PX	ICD-10-PCS
00P03KZ	Removal of Nonautologous Tissue Substitute from Brain, Percutaneous Approach	PX	ICD-10-PCS
00P03MZ	Removal of Neurostimulator Lead from Brain, Percutaneous Approach	PX	ICD-10-PCS
00P040Z	Removal of Drainage Device from Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P042Z	Removal of Monitoring Device from Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P043Z	Removal of Infusion Device from Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P047Z	Removal of Autologous Tissue Substitute from Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P04JZ	Removal of Synthetic Substitute from Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P04KZ	Removal of Nonautologous Tissue Substitute from Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P04MZ	Removal of Neurostimulator Lead from Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00P04YZ	Removal of Other Device from Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P600Z	Removal of Drainage Device from Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00P602Z	Removal of Monitoring Device from Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00P603Z	Removal of Infusion Device from Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00P60JZ	Removal of Synthetic Substitute from Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00P60MZ	Removal of Neurostimulator Lead from Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00P60YZ	Removal of Other Device from Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00P63JZ	Removal of Synthetic Substitute from Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00P63MZ	Removal of Neurostimulator Lead from Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00P640Z	Removal of Drainage Device from Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P642Z	Removal of Monitoring Device from Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P643Z	Removal of Infusion Device from Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P64JZ	Removal of Synthetic Substitute from Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P64MZ	Removal of Neurostimulator Lead from Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00P64YZ	Removal of Other Device from Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PE00Z	Removal of Drainage Device from Cranial Nerve, Open Approach	PX	ICD-10-PCS
00PE02Z	Removal of Monitoring Device from Cranial Nerve, Open Approach	PX	ICD-10-PCS
00PE03Z	Removal of Infusion Device from Cranial Nerve, Open Approach	PX	ICD-10-PCS
00PE07Z	Removal of Autologous Tissue Substitute from Cranial Nerve, Open Approach	PX	ICD-10-PCS
00PE0MZ	Removal of Neurostimulator Lead from Cranial Nerve, Open Approach	PX	ICD-10-PCS
00PE0YZ	Removal of Other Device from Cranial Nerve, Open Approach	PX	ICD-10-PCS
00PE37Z	Removal of Autologous Tissue Substitute from Cranial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00PE3MZ	Removal of Neurostimulator Lead from Cranial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00PE40Z	Removal of Drainage Device from Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PE42Z	Removal of Monitoring Device from Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PE43Z	Removal of Infusion Device from Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PE47Z	Removal of Autologous Tissue Substitute from Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PE4MZ	Removal of Neurostimulator Lead from Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PE4YZ	Removal of Other Device from Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PU00Z	Removal of Drainage Device from Spinal Canal, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00PU02Z	Removal of Monitoring Device from Spinal Canal, Open Approach	PX	ICD-10-PCS
00PU03Z	Removal of Infusion Device from Spinal Canal, Open Approach	PX	ICD-10-PCS
00PU0JZ	Removal of Synthetic Substitute from Spinal Canal, Open Approach	PX	ICD-10-PCS
00PU0MZ	Removal of Neurostimulator Lead from Spinal Canal, Open Approach	PX	ICD-10-PCS
00PU0YZ	Removal of Other Device from Spinal Canal, Open Approach	PX	ICD-10-PCS
00PU3JZ	Removal of Synthetic Substitute from Spinal Canal, Percutaneous Approach	PX	ICD-10-PCS
00PU3MZ	Removal of Neurostimulator Lead from Spinal Canal, Percutaneous Approach	PX	ICD-10-PCS
00PU40Z	Removal of Drainage Device from Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PU42Z	Removal of Monitoring Device from Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PU43Z	Removal of Infusion Device from Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PU4JZ	Removal of Synthetic Substitute from Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PU4MZ	Removal of Neurostimulator Lead from Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PU4YZ	Removal of Other Device from Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PV00Z	Removal of Drainage Device from Spinal Cord, Open Approach	PX	ICD-10-PCS
00PV02Z	Removal of Monitoring Device from Spinal Cord, Open Approach	PX	ICD-10-PCS
00PV03Z	Removal of Infusion Device from Spinal Cord, Open Approach	PX	ICD-10-PCS
00PV07Z	Removal of Autologous Tissue Substitute from Spinal Cord, Open Approach	PX	ICD-10-PCS
00PV0JZ	Removal of Synthetic Substitute from Spinal Cord, Open Approach	PX	ICD-10-PCS
00PV0KZ	Removal of Nonautologous Tissue Substitute from Spinal Cord, Open Approach	PX	ICD-10-PCS
00PV0MZ	Removal of Neurostimulator Lead from Spinal Cord, Open Approach	PX	ICD-10-PCS
00PV0YZ	Removal of Other Device from Spinal Cord, Open Approach	PX	ICD-10-PCS
00PV37Z	Removal of Autologous Tissue Substitute from Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00PV3JZ	Removal of Synthetic Substitute from Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00PV3KZ	Removal of Nonautologous Tissue Substitute from Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00PV3MZ	Removal of Neurostimulator Lead from Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00PV40Z	Removal of Drainage Device from Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PV42Z	Removal of Monitoring Device from Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PV43Z	Removal of Infusion Device from Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PV47Z	Removal of Autologous Tissue Substitute from Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PV4JZ	Removal of Synthetic Substitute from Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PV4KZ	Removal of Nonautologous Tissue Substitute from Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00PV4MZ	Removal of Neurostimulator Lead from Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00PV4YZ	Removal of Other Device from Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00Q00ZZ	Repair Brain, Open Approach	PX	ICD-10-PCS
00Q03ZZ	Repair Brain, Percutaneous Approach	PX	ICD-10-PCS
00Q04ZZ	Repair Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00Q10ZZ	Repair Cerebral Meninges, Open Approach	PX	ICD-10-PCS
00Q13ZZ	Repair Cerebral Meninges, Percutaneous Approach	PX	ICD-10-PCS
00Q14ZZ	Repair Cerebral Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00Q20ZZ	Repair Dura Mater, Open Approach	PX	ICD-10-PCS
00Q23ZZ	Repair Dura Mater, Percutaneous Approach	PX	ICD-10-PCS
00Q24ZZ	Repair Dura Mater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00Q60ZZ	Repair Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00Q63ZZ	Repair Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00Q64ZZ	Repair Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00Q70ZZ	Repair Cerebral Hemisphere, Open Approach	PX	ICD-10-PCS
00Q73ZZ	Repair Cerebral Hemisphere, Percutaneous Approach	PX	ICD-10-PCS
00Q74ZZ	Repair Cerebral Hemisphere, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00Q80ZZ	Repair Basal Ganglia, Open Approach	PX	ICD-10-PCS
00Q83ZZ	Repair Basal Ganglia, Percutaneous Approach	PX	ICD-10-PCS
00Q84ZZ	Repair Basal Ganglia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00Q90ZZ	Repair Thalamus, Open Approach	PX	ICD-10-PCS
00Q93ZZ	Repair Thalamus, Percutaneous Approach	PX	ICD-10-PCS
00Q94ZZ	Repair Thalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QA0ZZ	Repair Hypothalamus, Open Approach	PX	ICD-10-PCS
00QA3ZZ	Repair Hypothalamus, Percutaneous Approach	PX	ICD-10-PCS
00QA4ZZ	Repair Hypothalamus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QB0ZZ	Repair Pons, Open Approach	PX	ICD-10-PCS
00QB3ZZ	Repair Pons, Percutaneous Approach	PX	ICD-10-PCS
00QB4ZZ	Repair Pons, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QC0ZZ	Repair Cerebellum, Open Approach	PX	ICD-10-PCS
00QC3ZZ	Repair Cerebellum, Percutaneous Approach	PX	ICD-10-PCS
00QC4ZZ	Repair Cerebellum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QD0ZZ	Repair Medulla Oblongata, Open Approach	PX	ICD-10-PCS
00QD3ZZ	Repair Medulla Oblongata, Percutaneous Approach	PX	ICD-10-PCS
00QD4ZZ	Repair Medulla Oblongata, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QF0ZZ	Repair Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00QF3ZZ	Repair Olfactory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QF4ZZ	Repair Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QG0ZZ	Repair Optic Nerve, Open Approach	PX	ICD-10-PCS
00QG3ZZ	Repair Optic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QG4ZZ	Repair Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QH0ZZ	Repair Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00QH3ZZ	Repair Oculomotor Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QH4ZZ	Repair Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00QJ0ZZ	Repair Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00QJ3ZZ	Repair Trochlear Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QJ4ZZ	Repair Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QK0ZZ	Repair Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00QK3ZZ	Repair Trigeminal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QK4ZZ	Repair Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QL0ZZ	Repair Abducens Nerve, Open Approach	PX	ICD-10-PCS
00QL3ZZ	Repair Abducens Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QL4ZZ	Repair Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QM0ZZ	Repair Facial Nerve, Open Approach	PX	ICD-10-PCS
00QM3ZZ	Repair Facial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QM4ZZ	Repair Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QN0ZZ	Repair Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00QN3ZZ	Repair Acoustic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QN4ZZ	Repair Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QP0ZZ	Repair Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00QP3ZZ	Repair Glossopharyngeal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QP4ZZ	Repair Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QQ0ZZ	Repair Vagus Nerve, Open Approach	PX	ICD-10-PCS
00QQ3ZZ	Repair Vagus Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QQ4ZZ	Repair Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QR0ZZ	Repair Accessory Nerve, Open Approach	PX	ICD-10-PCS
00QR3ZZ	Repair Accessory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QR4ZZ	Repair Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QS0ZZ	Repair Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00QS3ZZ	Repair Hypoglossal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00QS4ZZ	Repair Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QT0ZZ	Repair Spinal Meninges, Open Approach	PX	ICD-10-PCS
00QT3ZZ	Repair Spinal Meninges, Percutaneous Approach	PX	ICD-10-PCS
00QT4ZZ	Repair Spinal Meninges, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QW0ZZ	Repair Cervical Spinal Cord, Open Approach	PX	ICD-10-PCS
00QW3ZZ	Repair Cervical Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00QW4ZZ	Repair Cervical Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QX0ZZ	Repair Thoracic Spinal Cord, Open Approach	PX	ICD-10-PCS
00QX3ZZ	Repair Thoracic Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00QX4ZZ	Repair Thoracic Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00QY0ZZ	Repair Lumbar Spinal Cord, Open Approach	PX	ICD-10-PCS
00QY3ZZ	Repair Lumbar Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00QY4ZZ	Repair Lumbar Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00R107Z	Replacement of Cerebral Meninges with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00R10JZ	Replacement of Cerebral Meninges with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00R10KZ	Replacement of Cerebral Meninges with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00R147Z	Replacement of Cerebral Meninges with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00R14JZ	Replacement of Cerebral Meninges with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00R14KZ	Replacement of Cerebral Meninges with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00R207Z	Replacement of Dura Mater with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00R20JZ	Replacement of Dura Mater with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00R20KZ	Replacement of Dura Mater with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00R247Z	Replacement of Dura Mater with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00R24JZ	Replacement of Dura Mater with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00R24KZ	Replacement of Dura Mater with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00R607Z	Replacement of Cerebral Ventricle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00R60JZ	Replacement of Cerebral Ventricle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00R60KZ	Replacement of Cerebral Ventricle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00R647Z	Replacement of Cerebral Ventricle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00R64JZ	Replacement of Cerebral Ventricle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00R64KZ	Replacement of Cerebral Ventricle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RF07Z	Replacement of Olfactory Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RF0JZ	Replacement of Olfactory Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RF0KZ	Replacement of Olfactory Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RF47Z	Replacement of Olfactory Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RF4JZ	Replacement of Olfactory Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RF4KZ	Replacement of Olfactory Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RG07Z	Replacement of Optic Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RG0JZ	Replacement of Optic Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RG0KZ	Replacement of Optic Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RG47Z	Replacement of Optic Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00RG4JZ	Replacement of Optic Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RG4KZ	Replacement of Optic Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RH07Z	Replacement of Oculomotor Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RH0JZ	Replacement of Oculomotor Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RH0KZ	Replacement of Oculomotor Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RH47Z	Replacement of Oculomotor Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RH4JZ	Replacement of Oculomotor Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RH4KZ	Replacement of Oculomotor Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RJ07Z	Replacement of Trochlear Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RJ0JZ	Replacement of Trochlear Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RJ0KZ	Replacement of Trochlear Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RJ47Z	Replacement of Trochlear Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RJ4JZ	Replacement of Trochlear Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RJ4KZ	Replacement of Trochlear Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RK07Z	Replacement of Trigeminal Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RK0JZ	Replacement of Trigeminal Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RK0KZ	Replacement of Trigeminal Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RK47Z	Replacement of Trigeminal Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RK4JZ	Replacement of Trigeminal Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RK4KZ	Replacement of Trigeminal Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RL07Z	Replacement of Abducens Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RL0JZ	Replacement of Abducens Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RL0KZ	Replacement of Abducens Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RL47Z	Replacement of Abducens Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00RL4JZ	Replacement of Abducens Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RL4KZ	Replacement of Abducens Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RM07Z	Replacement of Facial Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RM0JZ	Replacement of Facial Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RM0KZ	Replacement of Facial Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RM47Z	Replacement of Facial Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RM4JZ	Replacement of Facial Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RM4KZ	Replacement of Facial Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RN07Z	Replacement of Acoustic Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RN0JZ	Replacement of Acoustic Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RN0KZ	Replacement of Acoustic Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RN47Z	Replacement of Acoustic Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RN4JZ	Replacement of Acoustic Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RN4KZ	Replacement of Acoustic Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RP07Z	Replacement of Glossopharyngeal Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RP0JZ	Replacement of Glossopharyngeal Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RP0KZ	Replacement of Glossopharyngeal Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RP47Z	Replacement of Glossopharyngeal Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RP4JZ	Replacement of Glossopharyngeal Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RP4KZ	Replacement of Glossopharyngeal Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RQ07Z	Replacement of Vagus Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RQ0JZ	Replacement of Vagus Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RQ0KZ	Replacement of Vagus Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RQ47Z	Replacement of Vagus Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RQ4JZ	Replacement of Vagus Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00RQ4KZ	Replacement of Vagus Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RR07Z	Replacement of Accessory Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RR0JZ	Replacement of Accessory Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RR0KZ	Replacement of Accessory Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RR47Z	Replacement of Accessory Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RR4JZ	Replacement of Accessory Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RR4KZ	Replacement of Accessory Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RS07Z	Replacement of Hypoglossal Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RS0JZ	Replacement of Hypoglossal Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RS0KZ	Replacement of Hypoglossal Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RS47Z	Replacement of Hypoglossal Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RS4JZ	Replacement of Hypoglossal Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RS4KZ	Replacement of Hypoglossal Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RT07Z	Replacement of Spinal Meninges with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RT0JZ	Replacement of Spinal Meninges with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00RT0KZ	Replacement of Spinal Meninges with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00RT47Z	Replacement of Spinal Meninges with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RT4JZ	Replacement of Spinal Meninges with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00RT4KZ	Replacement of Spinal Meninges with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SF0ZZ	Reposition Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00SF3ZZ	Reposition Olfactory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SF4ZZ	Reposition Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SG0ZZ	Reposition Optic Nerve, Open Approach	PX	ICD-10-PCS
00SG3ZZ	Reposition Optic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SG4ZZ	Reposition Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SH0ZZ	Reposition Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00SH3ZZ	Reposition Oculomotor Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SH4ZZ	Reposition Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SJ0ZZ	Reposition Trochlear Nerve, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00SJ3ZZ	Reposition Trochlear Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SJ4ZZ	Reposition Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SK0ZZ	Reposition Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00SK3ZZ	Reposition Trigeminal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SK4ZZ	Reposition Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SL0ZZ	Reposition Abducens Nerve, Open Approach	PX	ICD-10-PCS
00SL3ZZ	Reposition Abducens Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SL4ZZ	Reposition Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SM0ZZ	Reposition Facial Nerve, Open Approach	PX	ICD-10-PCS
00SM3ZZ	Reposition Facial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SM4ZZ	Reposition Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SN0ZZ	Reposition Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00SN3ZZ	Reposition Acoustic Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SN4ZZ	Reposition Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SP0ZZ	Reposition Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00SP3ZZ	Reposition Glossopharyngeal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SP4ZZ	Reposition Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SQ0ZZ	Reposition Vagus Nerve, Open Approach	PX	ICD-10-PCS
00SQ3ZZ	Reposition Vagus Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SQ4ZZ	Reposition Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SR0ZZ	Reposition Accessory Nerve, Open Approach	PX	ICD-10-PCS
00SR3ZZ	Reposition Accessory Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SR4ZZ	Reposition Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SS0ZZ	Reposition Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00SS3ZZ	Reposition Hypoglossal Nerve, Percutaneous Approach	PX	ICD-10-PCS
00SS4ZZ	Reposition Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SW0ZZ	Reposition Cervical Spinal Cord, Open Approach	PX	ICD-10-PCS
00SW3ZZ	Reposition Cervical Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00SW4ZZ	Reposition Cervical Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SX0ZZ	Reposition Thoracic Spinal Cord, Open Approach	PX	ICD-10-PCS
00SX3ZZ	Reposition Thoracic Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00SX4ZZ	Reposition Thoracic Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00SY0ZZ	Reposition Lumbar Spinal Cord, Open Approach	PX	ICD-10-PCS
00SY3ZZ	Reposition Lumbar Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00SY4ZZ	Reposition Lumbar Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00T70ZZ	Resection of Cerebral Hemisphere, Open Approach	PX	ICD-10-PCS
00T73ZZ	Resection of Cerebral Hemisphere, Percutaneous Approach	PX	ICD-10-PCS
00T74ZZ	Resection of Cerebral Hemisphere, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00U107Z	Supplement Cerebral Meninges with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00U10JZ	Supplement Cerebral Meninges with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00U10KZ	Supplement Cerebral Meninges with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00U137Z	Supplement Cerebral Meninges with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00U13JZ	Supplement Cerebral Meninges with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00U13KZ	Supplement Cerebral Meninges with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00U147Z	Supplement Cerebral Meninges with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00U14JZ	Supplement Cerebral Meninges with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00U14KZ	Supplement Cerebral Meninges with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00U207Z	Supplement Dura Mater with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00U20JZ	Supplement Dura Mater with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00U20KZ	Supplement Dura Mater with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00U237Z	Supplement Dura Mater with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00U23JZ	Supplement Dura Mater with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00U23KZ	Supplement Dura Mater with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00U247Z	Supplement Dura Mater with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00U24JZ	Supplement Dura Mater with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00U24KZ	Supplement Dura Mater with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00U607Z	Supplement Cerebral Ventricle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00U60JZ	Supplement Cerebral Ventricle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00U60KZ	Supplement Cerebral Ventricle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00U637Z	Supplement Cerebral Ventricle with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00U63JZ	Supplement Cerebral Ventricle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00U63KZ	Supplement Cerebral Ventricle with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00U647Z	Supplement Cerebral Ventricle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00U64JZ	Supplement Cerebral Ventricle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00U64KZ	Supplement Cerebral Ventricle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UF07Z	Supplement Olfactory Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UF0JZ	Supplement Olfactory Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UF0KZ	Supplement Olfactory Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00UF37Z	Supplement Olfactory Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UF3JZ	Supplement Olfactory Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UF3KZ	Supplement Olfactory Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UF47Z	Supplement Olfactory Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UF4JZ	Supplement Olfactory Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UF4KZ	Supplement Olfactory Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UG07Z	Supplement Optic Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UG0JZ	Supplement Optic Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UG0KZ	Supplement Optic Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UG37Z	Supplement Optic Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UG3JZ	Supplement Optic Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UG3KZ	Supplement Optic Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UG47Z	Supplement Optic Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UG4JZ	Supplement Optic Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UG4KZ	Supplement Optic Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UH07Z	Supplement Oculomotor Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UH0JZ	Supplement Oculomotor Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UH0KZ	Supplement Oculomotor Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UH37Z	Supplement Oculomotor Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UH3JZ	Supplement Oculomotor Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UH3KZ	Supplement Oculomotor Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UH47Z	Supplement Oculomotor Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UH4JZ	Supplement Oculomotor Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UH4KZ	Supplement Oculomotor Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UJ07Z	Supplement Trochlear Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UJ0JZ	Supplement Trochlear Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00UJ0KZ	Supplement Trochlear Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UJ37Z	Supplement Trochlear Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UJ3JZ	Supplement Trochlear Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UJ3KZ	Supplement Trochlear Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UJ47Z	Supplement Trochlear Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UJ4JZ	Supplement Trochlear Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UJ4KZ	Supplement Trochlear Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UK07Z	Supplement Trigeminal Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UK0JZ	Supplement Trigeminal Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UK0KZ	Supplement Trigeminal Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UK37Z	Supplement Trigeminal Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UK3JZ	Supplement Trigeminal Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UK3KZ	Supplement Trigeminal Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UK47Z	Supplement Trigeminal Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UK4JZ	Supplement Trigeminal Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UK4KZ	Supplement Trigeminal Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UL07Z	Supplement Abducens Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UL0JZ	Supplement Abducens Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UL0KZ	Supplement Abducens Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UL37Z	Supplement Abducens Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UL3JZ	Supplement Abducens Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UL3KZ	Supplement Abducens Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UL47Z	Supplement Abducens Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UL4JZ	Supplement Abducens Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00UL4KZ	Supplement Abducens Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UM07Z	Supplement Facial Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UM0JZ	Supplement Facial Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UM0KZ	Supplement Facial Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UM37Z	Supplement Facial Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UM3JZ	Supplement Facial Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UM3KZ	Supplement Facial Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UM47Z	Supplement Facial Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UM4JZ	Supplement Facial Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UM4KZ	Supplement Facial Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UN07Z	Supplement Acoustic Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UN0JZ	Supplement Acoustic Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UN0KZ	Supplement Acoustic Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UN37Z	Supplement Acoustic Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UN3JZ	Supplement Acoustic Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UN3KZ	Supplement Acoustic Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UN47Z	Supplement Acoustic Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UN4JZ	Supplement Acoustic Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UN4KZ	Supplement Acoustic Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UP07Z	Supplement Glossopharyngeal Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UP0JZ	Supplement Glossopharyngeal Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UP0KZ	Supplement Glossopharyngeal Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UP37Z	Supplement Glossopharyngeal Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UP3JZ	Supplement Glossopharyngeal Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UP3KZ	Supplement Glossopharyngeal Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UP47Z	Supplement Glossopharyngeal Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00UP4JZ	Supplement Glossopharyngeal Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UP4KZ	Supplement Glossopharyngeal Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UQ07Z	Supplement Vagus Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UQ0JZ	Supplement Vagus Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UQ0KZ	Supplement Vagus Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UQ37Z	Supplement Vagus Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UQ3JZ	Supplement Vagus Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UQ3KZ	Supplement Vagus Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UQ47Z	Supplement Vagus Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UQ4JZ	Supplement Vagus Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UQ4KZ	Supplement Vagus Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UR07Z	Supplement Accessory Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UR0JZ	Supplement Accessory Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UR0KZ	Supplement Accessory Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UR37Z	Supplement Accessory Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UR3JZ	Supplement Accessory Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UR3KZ	Supplement Accessory Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UR47Z	Supplement Accessory Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UR4JZ	Supplement Accessory Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UR4KZ	Supplement Accessory Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00US07Z	Supplement Hypoglossal Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00US0JZ	Supplement Hypoglossal Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00US0KZ	Supplement Hypoglossal Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00US37Z	Supplement Hypoglossal Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00US3JZ	Supplement Hypoglossal Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00US3KZ	Supplement Hypoglossal Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00US47Z	Supplement Hypoglossal Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00US4JZ	Supplement Hypoglossal Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00US4KZ	Supplement Hypoglossal Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UT07Z	Supplement Spinal Meninges with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UT0JZ	Supplement Spinal Meninges with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
00UT0KZ	Supplement Spinal Meninges with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
00UT37Z	Supplement Spinal Meninges with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UT3JZ	Supplement Spinal Meninges with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UT3KZ	Supplement Spinal Meninges with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
00UT47Z	Supplement Spinal Meninges with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UT4JZ	Supplement Spinal Meninges with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00UT4KZ	Supplement Spinal Meninges with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W000Z	Revision of Drainage Device in Brain, Open Approach	PX	ICD-10-PCS
00W002Z	Revision of Monitoring Device in Brain, Open Approach	PX	ICD-10-PCS
00W003Z	Revision of Infusion Device in Brain, Open Approach	PX	ICD-10-PCS
00W007Z	Revision of Autologous Tissue Substitute in Brain, Open Approach	PX	ICD-10-PCS
00W00JZ	Revision of Synthetic Substitute in Brain, Open Approach	PX	ICD-10-PCS
00W00KZ	Revision of Nonautologous Tissue Substitute in Brain, Open Approach	PX	ICD-10-PCS
00W00MZ	Revision of Neurostimulator Lead in Brain, Open Approach	PX	ICD-10-PCS
00W00YZ	Revision of Other Device in Brain, Open Approach	PX	ICD-10-PCS
00W030Z	Revision of Drainage Device in Brain, Percutaneous Approach	PX	ICD-10-PCS
00W032Z	Revision of Monitoring Device in Brain, Percutaneous Approach	PX	ICD-10-PCS
00W033Z	Revision of Infusion Device in Brain, Percutaneous Approach	PX	ICD-10-PCS
00W037Z	Revision of Autologous Tissue Substitute in Brain, Percutaneous Approach	PX	ICD-10-PCS
00W03JZ	Revision of Synthetic Substitute in Brain, Percutaneous Approach	PX	ICD-10-PCS
00W03KZ	Revision of Nonautologous Tissue Substitute in Brain, Percutaneous Approach	PX	ICD-10-PCS
00W03MZ	Revision of Neurostimulator Lead in Brain, Percutaneous Approach	PX	ICD-10-PCS
00W040Z	Revision of Drainage Device in Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W042Z	Revision of Monitoring Device in Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W043Z	Revision of Infusion Device in Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W047Z	Revision of Autologous Tissue Substitute in Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W04JZ	Revision of Synthetic Substitute in Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00W04KZ	Revision of Nonautologous Tissue Substitute in Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W04MZ	Revision of Neurostimulator Lead in Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W04YZ	Revision of Other Device in Brain, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W600Z	Revision of Drainage Device in Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00W602Z	Revision of Monitoring Device in Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00W603Z	Revision of Infusion Device in Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00W60JZ	Revision of Synthetic Substitute in Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00W60MZ	Revision of Neurostimulator Lead in Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00W60YZ	Revision of Other Device in Cerebral Ventricle, Open Approach	PX	ICD-10-PCS
00W630Z	Revision of Drainage Device in Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00W632Z	Revision of Monitoring Device in Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00W633Z	Revision of Infusion Device in Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00W63JZ	Revision of Synthetic Substitute in Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00W63MZ	Revision of Neurostimulator Lead in Cerebral Ventricle, Percutaneous Approach	PX	ICD-10-PCS
00W640Z	Revision of Drainage Device in Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W642Z	Revision of Monitoring Device in Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W643Z	Revision of Infusion Device in Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W64JZ	Revision of Synthetic Substitute in Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W64MZ	Revision of Neurostimulator Lead in Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00W64YZ	Revision of Other Device in Cerebral Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WE00Z	Revision of Drainage Device in Cranial Nerve, Open Approach	PX	ICD-10-PCS
00WE02Z	Revision of Monitoring Device in Cranial Nerve, Open Approach	PX	ICD-10-PCS
00WE03Z	Revision of Infusion Device in Cranial Nerve, Open Approach	PX	ICD-10-PCS
00WE07Z	Revision of Autologous Tissue Substitute in Cranial Nerve, Open Approach	PX	ICD-10-PCS
00WE0MZ	Revision of Neurostimulator Lead in Cranial Nerve, Open Approach	PX	ICD-10-PCS
00WE0YZ	Revision of Other Device in Cranial Nerve, Open Approach	PX	ICD-10-PCS
00WE30Z	Revision of Drainage Device in Cranial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00WE32Z	Revision of Monitoring Device in Cranial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00WE33Z	Revision of Infusion Device in Cranial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00WE37Z	Revision of Autologous Tissue Substitute in Cranial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00WE3MZ	Revision of Neurostimulator Lead in Cranial Nerve, Percutaneous Approach	PX	ICD-10-PCS
00WE40Z	Revision of Drainage Device in Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WE42Z	Revision of Monitoring Device in Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WE43Z	Revision of Infusion Device in Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00WE47Z	Revision of Autologous Tissue Substitute in Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WE4MZ	Revision of Neurostimulator Lead in Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WE4YZ	Revision of Other Device in Cranial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WU00Z	Revision of Drainage Device in Spinal Canal, Open Approach	PX	ICD-10-PCS
00WU02Z	Revision of Monitoring Device in Spinal Canal, Open Approach	PX	ICD-10-PCS
00WU03Z	Revision of Infusion Device in Spinal Canal, Open Approach	PX	ICD-10-PCS
00WU0JZ	Revision of Synthetic Substitute in Spinal Canal, Open Approach	PX	ICD-10-PCS
00WU0MZ	Revision of Neurostimulator Lead in Spinal Canal, Open Approach	PX	ICD-10-PCS
00WU0YZ	Revision of Other Device in Spinal Canal, Open Approach	PX	ICD-10-PCS
00WU30Z	Revision of Drainage Device in Spinal Canal, Percutaneous Approach	PX	ICD-10-PCS
00WU32Z	Revision of Monitoring Device in Spinal Canal, Percutaneous Approach	PX	ICD-10-PCS
00WU33Z	Revision of Infusion Device in Spinal Canal, Percutaneous Approach	PX	ICD-10-PCS
00WU3JZ	Revision of Synthetic Substitute in Spinal Canal, Percutaneous Approach	PX	ICD-10-PCS
00WU3MZ	Revision of Neurostimulator Lead in Spinal Canal, Percutaneous Approach	PX	ICD-10-PCS
00WU40Z	Revision of Drainage Device in Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WU42Z	Revision of Monitoring Device in Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WU43Z	Revision of Infusion Device in Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WU4JZ	Revision of Synthetic Substitute in Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WU4MZ	Revision of Neurostimulator Lead in Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WU4YZ	Revision of Other Device in Spinal Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WV00Z	Revision of Drainage Device in Spinal Cord, Open Approach	PX	ICD-10-PCS
00WV02Z	Revision of Monitoring Device in Spinal Cord, Open Approach	PX	ICD-10-PCS
00WV03Z	Revision of Infusion Device in Spinal Cord, Open Approach	PX	ICD-10-PCS
00WV07Z	Revision of Autologous Tissue Substitute in Spinal Cord, Open Approach	PX	ICD-10-PCS
00WV0JZ	Revision of Synthetic Substitute in Spinal Cord, Open Approach	PX	ICD-10-PCS
00WV0KZ	Revision of Nonautologous Tissue Substitute in Spinal Cord, Open Approach	PX	ICD-10-PCS
00WV0MZ	Revision of Neurostimulator Lead in Spinal Cord, Open Approach	PX	ICD-10-PCS
00WV0YZ	Revision of Other Device in Spinal Cord, Open Approach	PX	ICD-10-PCS
00WV30Z	Revision of Drainage Device in Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00WV32Z	Revision of Monitoring Device in Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00WV33Z	Revision of Infusion Device in Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00WV37Z	Revision of Autologous Tissue Substitute in Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00WV3JZ	Revision of Synthetic Substitute in Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00WV3KZ	Revision of Nonautologous Tissue Substitute in Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00WV3MZ	Revision of Neurostimulator Lead in Spinal Cord, Percutaneous Approach	PX	ICD-10-PCS
00WV40Z	Revision of Drainage Device in Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WV42Z	Revision of Monitoring Device in Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00WV43Z	Revision of Infusion Device in Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WV47Z	Revision of Autologous Tissue Substitute in Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WV4JZ	Revision of Synthetic Substitute in Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WV4KZ	Revision of Nonautologous Tissue Substitute in Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WV4MZ	Revision of Neurostimulator Lead in Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00WV4YZ	Revision of Other Device in Spinal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF0ZF	Transfer Olfactory Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZG	Transfer Olfactory Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZH	Transfer Olfactory Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZJ	Transfer Olfactory Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZK	Transfer Olfactory Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZL	Transfer Olfactory Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZM	Transfer Olfactory Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZN	Transfer Olfactory Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZP	Transfer Olfactory Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZQ	Transfer Olfactory Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZR	Transfer Olfactory Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XF0ZS	Transfer Olfactory Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XF4ZF	Transfer Olfactory Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZG	Transfer Olfactory Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZH	Transfer Olfactory Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZJ	Transfer Olfactory Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZK	Transfer Olfactory Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZL	Transfer Olfactory Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZM	Transfer Olfactory Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZN	Transfer Olfactory Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZP	Transfer Olfactory Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZQ	Transfer Olfactory Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZR	Transfer Olfactory Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XF4ZS	Transfer Olfactory Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG0ZF	Transfer Optic Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XG0ZG	Transfer Optic Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XG0ZH	Transfer Optic Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XG0ZJ	Transfer Optic Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00XG0ZK	Transfer Optic Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XG0ZL	Transfer Optic Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XG0ZM	Transfer Optic Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XG0ZN	Transfer Optic Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XG0ZP	Transfer Optic Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XG0ZQ	Transfer Optic Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XG0ZR	Transfer Optic Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XG0ZS	Transfer Optic Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XG4ZF	Transfer Optic Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZG	Transfer Optic Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZH	Transfer Optic Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZJ	Transfer Optic Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZK	Transfer Optic Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZL	Transfer Optic Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZM	Transfer Optic Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZN	Transfer Optic Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZP	Transfer Optic Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZQ	Transfer Optic Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZR	Transfer Optic Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XG4ZS	Transfer Optic Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH0ZF	Transfer Oculomotor Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZG	Transfer Oculomotor Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZH	Transfer Oculomotor Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZJ	Transfer Oculomotor Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZK	Transfer Oculomotor Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZL	Transfer Oculomotor Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZM	Transfer Oculomotor Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZN	Transfer Oculomotor Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZP	Transfer Oculomotor Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZQ	Transfer Oculomotor Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZR	Transfer Oculomotor Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XH0ZS	Transfer Oculomotor Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XH4ZF	Transfer Oculomotor Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH4ZG	Transfer Oculomotor Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH4ZH	Transfer Oculomotor Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH4ZJ	Transfer Oculomotor Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH4ZK	Transfer Oculomotor Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH4ZL	Transfer Oculomotor Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH4ZM	Transfer Oculomotor Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00XH4ZN	Transfer Oculomotor Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH4ZP	Transfer Oculomotor Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH4ZQ	Transfer Oculomotor Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH4ZR	Transfer Oculomotor Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XH4ZS	Transfer Oculomotor Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ0ZF	Transfer Trochlear Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZG	Transfer Trochlear Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZH	Transfer Trochlear Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZJ	Transfer Trochlear Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZK	Transfer Trochlear Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZL	Transfer Trochlear Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZM	Transfer Trochlear Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZN	Transfer Trochlear Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZP	Transfer Trochlear Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZQ	Transfer Trochlear Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZR	Transfer Trochlear Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XJ0ZS	Transfer Trochlear Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XJ4ZF	Transfer Trochlear Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZG	Transfer Trochlear Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZH	Transfer Trochlear Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZJ	Transfer Trochlear Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZK	Transfer Trochlear Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZL	Transfer Trochlear Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZM	Transfer Trochlear Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZN	Transfer Trochlear Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZP	Transfer Trochlear Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZQ	Transfer Trochlear Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZR	Transfer Trochlear Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XJ4ZS	Transfer Trochlear Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK0ZF	Transfer Trigeminal Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XK0ZG	Transfer Trigeminal Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XK0ZH	Transfer Trigeminal Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XK0ZJ	Transfer Trigeminal Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00XK0ZK	Transfer Trigeminal Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XK0ZL	Transfer Trigeminal Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XK0ZM	Transfer Trigeminal Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XK0ZN	Transfer Trigeminal Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XK0ZP	Transfer Trigeminal Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XK0ZQ	Transfer Trigeminal Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XK0ZR	Transfer Trigeminal Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XK0ZS	Transfer Trigeminal Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XK4ZF	Transfer Trigeminal Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZG	Transfer Trigeminal Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZH	Transfer Trigeminal Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZJ	Transfer Trigeminal Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZK	Transfer Trigeminal Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZL	Transfer Trigeminal Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZM	Transfer Trigeminal Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZN	Transfer Trigeminal Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZP	Transfer Trigeminal Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZQ	Transfer Trigeminal Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZR	Transfer Trigeminal Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XK4ZS	Transfer Trigeminal Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL0ZF	Transfer Abducens Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZG	Transfer Abducens Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZH	Transfer Abducens Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZJ	Transfer Abducens Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZK	Transfer Abducens Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZL	Transfer Abducens Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZM	Transfer Abducens Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZN	Transfer Abducens Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZP	Transfer Abducens Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZQ	Transfer Abducens Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZR	Transfer Abducens Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XL0ZS	Transfer Abducens Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XL4ZF	Transfer Abducens Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL4ZG	Transfer Abducens Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00XL4ZH	Transfer Abducens Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL4ZJ	Transfer Abducens Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL4ZK	Transfer Abducens Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL4ZL	Transfer Abducens Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL4ZM	Transfer Abducens Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL4ZN	Transfer Abducens Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL4ZP	Transfer Abducens Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL4ZQ	Transfer Abducens Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL4ZR	Transfer Abducens Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XL4ZS	Transfer Abducens Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM0ZF	Transfer Facial Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZG	Transfer Facial Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZH	Transfer Facial Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZJ	Transfer Facial Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZK	Transfer Facial Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZL	Transfer Facial Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZM	Transfer Facial Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZN	Transfer Facial Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZP	Transfer Facial Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZQ	Transfer Facial Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZR	Transfer Facial Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XM0ZS	Transfer Facial Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XM4ZF	Transfer Facial Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZG	Transfer Facial Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZH	Transfer Facial Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZJ	Transfer Facial Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZK	Transfer Facial Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZL	Transfer Facial Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZM	Transfer Facial Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZN	Transfer Facial Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZP	Transfer Facial Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZQ	Transfer Facial Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZR	Transfer Facial Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XM4ZS	Transfer Facial Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN0ZF	Transfer Acoustic Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XN0ZG	Transfer Acoustic Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XN0ZH	Transfer Acoustic Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00XN0ZJ	Transfer Acoustic Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00XN0ZK	Transfer Acoustic Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XN0ZL	Transfer Acoustic Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XN0ZM	Transfer Acoustic Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XN0ZN	Transfer Acoustic Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XN0ZP	Transfer Acoustic Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XN0ZQ	Transfer Acoustic Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XN0ZR	Transfer Acoustic Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XN0ZS	Transfer Acoustic Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XN4ZF	Transfer Acoustic Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZG	Transfer Acoustic Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZH	Transfer Acoustic Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZJ	Transfer Acoustic Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZK	Transfer Acoustic Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZL	Transfer Acoustic Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZM	Transfer Acoustic Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZN	Transfer Acoustic Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZP	Transfer Acoustic Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZQ	Transfer Acoustic Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZR	Transfer Acoustic Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XN4ZS	Transfer Acoustic Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP0ZF	Transfer Glossopharyngeal Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZG	Transfer Glossopharyngeal Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZH	Transfer Glossopharyngeal Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZJ	Transfer Glossopharyngeal Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZK	Transfer Glossopharyngeal Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZL	Transfer Glossopharyngeal Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZM	Transfer Glossopharyngeal Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZN	Transfer Glossopharyngeal Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZP	Transfer Glossopharyngeal Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZQ	Transfer Glossopharyngeal Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZR	Transfer Glossopharyngeal Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XP0ZS	Transfer Glossopharyngeal Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XP4ZF	Transfer Glossopharyngeal Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP4ZG	Transfer Glossopharyngeal Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP4ZH	Transfer Glossopharyngeal Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP4ZJ	Transfer Glossopharyngeal Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00XP4ZK	Transfer Glossopharyngeal Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP4ZL	Transfer Glossopharyngeal Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP4ZM	Transfer Glossopharyngeal Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP4ZN	Transfer Glossopharyngeal Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP4ZP	Transfer Glossopharyngeal Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP4ZQ	Transfer Glossopharyngeal Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP4ZR	Transfer Glossopharyngeal Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XP4ZS	Transfer Glossopharyngeal Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ0ZF	Transfer Vagus Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZG	Transfer Vagus Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZH	Transfer Vagus Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZJ	Transfer Vagus Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZK	Transfer Vagus Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZL	Transfer Vagus Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZM	Transfer Vagus Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZN	Transfer Vagus Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZP	Transfer Vagus Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZQ	Transfer Vagus Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZR	Transfer Vagus Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XQ0ZS	Transfer Vagus Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XQ4ZF	Transfer Vagus Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZG	Transfer Vagus Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZH	Transfer Vagus Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZJ	Transfer Vagus Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZK	Transfer Vagus Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZL	Transfer Vagus Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZM	Transfer Vagus Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZN	Transfer Vagus Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZP	Transfer Vagus Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZQ	Transfer Vagus Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZR	Transfer Vagus Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XQ4ZS	Transfer Vagus Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR0ZF	Transfer Accessory Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XR0ZG	Transfer Accessory Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XR0ZH	Transfer Accessory Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XR0ZJ	Transfer Accessory Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00XR0ZK	Transfer Accessory Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XR0ZL	Transfer Accessory Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XR0ZM	Transfer Accessory Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XR0ZN	Transfer Accessory Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XR0ZP	Transfer Accessory Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XR0ZQ	Transfer Accessory Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XR0ZR	Transfer Accessory Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XR0ZS	Transfer Accessory Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XR4ZF	Transfer Accessory Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZG	Transfer Accessory Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZH	Transfer Accessory Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZJ	Transfer Accessory Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZK	Transfer Accessory Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZL	Transfer Accessory Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZM	Transfer Accessory Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZN	Transfer Accessory Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZP	Transfer Accessory Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZQ	Transfer Accessory Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZR	Transfer Accessory Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XR4ZS	Transfer Accessory Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS0ZF	Transfer Hypoglossal Nerve to Olfactory Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZG	Transfer Hypoglossal Nerve to Optic Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZH	Transfer Hypoglossal Nerve to Oculomotor Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZJ	Transfer Hypoglossal Nerve to Trochlear Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZK	Transfer Hypoglossal Nerve to Trigeminal Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZL	Transfer Hypoglossal Nerve to Abducens Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZM	Transfer Hypoglossal Nerve to Facial Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZN	Transfer Hypoglossal Nerve to Acoustic Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZP	Transfer Hypoglossal Nerve to Glossopharyngeal Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZQ	Transfer Hypoglossal Nerve to Vagus Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZR	Transfer Hypoglossal Nerve to Accessory Nerve, Open Approach	PX	ICD-10-PCS
00XS0ZS	Transfer Hypoglossal Nerve to Hypoglossal Nerve, Open Approach	PX	ICD-10-PCS
00XS4ZF	Transfer Hypoglossal Nerve to Olfactory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS4ZG	Transfer Hypoglossal Nerve to Optic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS4ZH	Transfer Hypoglossal Nerve to Oculomotor Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00XS4ZJ	Transfer Hypoglossal Nerve to Trochlear Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS4ZK	Transfer Hypoglossal Nerve to Trigeminal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS4ZL	Transfer Hypoglossal Nerve to Abducens Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS4ZM	Transfer Hypoglossal Nerve to Facial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS4ZN	Transfer Hypoglossal Nerve to Acoustic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS4ZP	Transfer Hypoglossal Nerve to Glossopharyngeal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS4ZQ	Transfer Hypoglossal Nerve to Vagus Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS4ZR	Transfer Hypoglossal Nerve to Accessory Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
00XS4ZS	Transfer Hypoglossal Nerve to Hypoglossal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01500ZZ	Destruction of Cervical Plexus, Open Approach	PX	ICD-10-PCS
01504ZZ	Destruction of Cervical Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01510ZZ	Destruction of Cervical Nerve, Open Approach	PX	ICD-10-PCS
01514ZZ	Destruction of Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01520ZZ	Destruction of Phrenic Nerve, Open Approach	PX	ICD-10-PCS
01524ZZ	Destruction of Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01530ZZ	Destruction of Brachial Plexus, Open Approach	PX	ICD-10-PCS
01534ZZ	Destruction of Brachial Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01540ZZ	Destruction of Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01544ZZ	Destruction of Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01550ZZ	Destruction of Median Nerve, Open Approach	PX	ICD-10-PCS
01554ZZ	Destruction of Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01560ZZ	Destruction of Radial Nerve, Open Approach	PX	ICD-10-PCS
01564ZZ	Destruction of Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01580ZZ	Destruction of Thoracic Nerve, Open Approach	PX	ICD-10-PCS
01584ZZ	Destruction of Thoracic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01590ZZ	Destruction of Lumbar Plexus, Open Approach	PX	ICD-10-PCS
01594ZZ	Destruction of Lumbar Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015A0ZZ	Destruction of Lumbosacral Plexus, Open Approach	PX	ICD-10-PCS
015A4ZZ	Destruction of Lumbosacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015B0ZZ	Destruction of Lumbar Nerve, Open Approach	PX	ICD-10-PCS
015B4ZZ	Destruction of Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015C0ZZ	Destruction of Pudendal Nerve, Open Approach	PX	ICD-10-PCS
015C4ZZ	Destruction of Pudendal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015D0ZZ	Destruction of Femoral Nerve, Open Approach	PX	ICD-10-PCS
015D4ZZ	Destruction of Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015F0ZZ	Destruction of Sciatic Nerve, Open Approach	PX	ICD-10-PCS
015F4ZZ	Destruction of Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015G0ZZ	Destruction of Tibial Nerve, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
015G4ZZ	Destruction of Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015H0ZZ	Destruction of Peroneal Nerve, Open Approach	PX	ICD-10-PCS
015H4ZZ	Destruction of Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015K0ZZ	Destruction of Head and Neck Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
015K3ZZ	Destruction of Head and Neck Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
015K4ZZ	Destruction of Head and Neck Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015L0ZZ	Destruction of Thoracic Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
015L3ZZ	Destruction of Thoracic Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
015L4ZZ	Destruction of Thoracic Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015M0ZZ	Destruction of Abdominal Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
015M3ZZ	Destruction of Abdominal Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
015M4ZZ	Destruction of Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015N0ZZ	Destruction of Lumbar Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
015N3ZZ	Destruction of Lumbar Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
015N4ZZ	Destruction of Lumbar Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015P0ZZ	Destruction of Sacral Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
015P3ZZ	Destruction of Sacral Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
015P4ZZ	Destruction of Sacral Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015Q0ZZ	Destruction of Sacral Plexus, Open Approach	PX	ICD-10-PCS
015Q4ZZ	Destruction of Sacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
015R0ZZ	Destruction of Sacral Nerve, Open Approach	PX	ICD-10-PCS
015R4ZZ	Destruction of Sacral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01800ZZ	Division of Cervical Plexus, Open Approach	PX	ICD-10-PCS
01803ZZ	Division of Cervical Plexus, Percutaneous Approach	PX	ICD-10-PCS
01804ZZ	Division of Cervical Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01810ZZ	Division of Cervical Nerve, Open Approach	PX	ICD-10-PCS
01813ZZ	Division of Cervical Nerve, Percutaneous Approach	PX	ICD-10-PCS
01814ZZ	Division of Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01820ZZ	Division of Phrenic Nerve, Open Approach	PX	ICD-10-PCS
01823ZZ	Division of Phrenic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01824ZZ	Division of Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01830ZZ	Division of Brachial Plexus, Open Approach	PX	ICD-10-PCS
01833ZZ	Division of Brachial Plexus, Percutaneous Approach	PX	ICD-10-PCS
01834ZZ	Division of Brachial Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01840ZZ	Division of Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01843ZZ	Division of Ulnar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01844ZZ	Division of Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01850ZZ	Division of Median Nerve, Open Approach	PX	ICD-10-PCS
01853ZZ	Division of Median Nerve, Percutaneous Approach	PX	ICD-10-PCS
01854ZZ	Division of Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01860ZZ	Division of Radial Nerve, Open Approach	PX	ICD-10-PCS
01863ZZ	Division of Radial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01864ZZ	Division of Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01880ZZ	Division of Thoracic Nerve, Open Approach	PX	ICD-10-PCS
01883ZZ	Division of Thoracic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01884ZZ	Division of Thoracic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01890ZZ	Division of Lumbar Plexus, Open Approach	PX	ICD-10-PCS
01893ZZ	Division of Lumbar Plexus, Percutaneous Approach	PX	ICD-10-PCS
01894ZZ	Division of Lumbar Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018A0ZZ	Division of Lumbosacral Plexus, Open Approach	PX	ICD-10-PCS
018A3ZZ	Division of Lumbosacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
018A4ZZ	Division of Lumbosacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018B0ZZ	Division of Lumbar Nerve, Open Approach	PX	ICD-10-PCS
018B3ZZ	Division of Lumbar Nerve, Percutaneous Approach	PX	ICD-10-PCS
018B4ZZ	Division of Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018C0ZZ	Division of Pudendal Nerve, Open Approach	PX	ICD-10-PCS
018C3ZZ	Division of Pudendal Nerve, Percutaneous Approach	PX	ICD-10-PCS
018C4ZZ	Division of Pudendal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018D0ZZ	Division of Femoral Nerve, Open Approach	PX	ICD-10-PCS
018D3ZZ	Division of Femoral Nerve, Percutaneous Approach	PX	ICD-10-PCS
018D4ZZ	Division of Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018F0ZZ	Division of Sciatic Nerve, Open Approach	PX	ICD-10-PCS
018F3ZZ	Division of Sciatic Nerve, Percutaneous Approach	PX	ICD-10-PCS
018F4ZZ	Division of Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018G0ZZ	Division of Tibial Nerve, Open Approach	PX	ICD-10-PCS
018G3ZZ	Division of Tibial Nerve, Percutaneous Approach	PX	ICD-10-PCS
018G4ZZ	Division of Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018H0ZZ	Division of Peroneal Nerve, Open Approach	PX	ICD-10-PCS
018H3ZZ	Division of Peroneal Nerve, Percutaneous Approach	PX	ICD-10-PCS
018H4ZZ	Division of Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018K0ZZ	Division of Head and Neck Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
018K3ZZ	Division of Head and Neck Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
018K4ZZ	Division of Head and Neck Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018L0ZZ	Division of Thoracic Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
018L3ZZ	Division of Thoracic Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
018L4ZZ	Division of Thoracic Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018M0ZZ	Division of Abdominal Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
018M3ZZ	Division of Abdominal Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
018M4ZZ	Division of Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018N0ZZ	Division of Lumbar Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
018N3ZZ	Division of Lumbar Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
018N4ZZ	Division of Lumbar Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018P0ZZ	Division of Sacral Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
018P3ZZ	Division of Sacral Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
018P4ZZ	Division of Sacral Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018Q0ZZ	Division of Sacral Plexus, Open Approach	PX	ICD-10-PCS
018Q3ZZ	Division of Sacral Plexus, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
018Q4ZZ	Division of Sacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
018R0ZZ	Division of Sacral Nerve, Open Approach	PX	ICD-10-PCS
018R3ZZ	Division of Sacral Nerve, Percutaneous Approach	PX	ICD-10-PCS
018R4ZZ	Division of Sacral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019000Z	Drainage of Cervical Plexus with Drainage Device, Open Approach	PX	ICD-10-PCS
01900ZZ	Drainage of Cervical Plexus, Open Approach	PX	ICD-10-PCS
019040Z	Drainage of Cervical Plexus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01904ZZ	Drainage of Cervical Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019100Z	Drainage of Cervical Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
01910ZZ	Drainage of Cervical Nerve, Open Approach	PX	ICD-10-PCS
019140Z	Drainage of Cervical Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01914ZZ	Drainage of Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019200Z	Drainage of Phrenic Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
01920ZZ	Drainage of Phrenic Nerve, Open Approach	PX	ICD-10-PCS
019240Z	Drainage of Phrenic Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01924ZZ	Drainage of Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019300Z	Drainage of Brachial Plexus with Drainage Device, Open Approach	PX	ICD-10-PCS
01930ZZ	Drainage of Brachial Plexus, Open Approach	PX	ICD-10-PCS
019340Z	Drainage of Brachial Plexus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01934ZZ	Drainage of Brachial Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019400Z	Drainage of Ulnar Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
01940ZZ	Drainage of Ulnar Nerve, Open Approach	PX	ICD-10-PCS
019440Z	Drainage of Ulnar Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01944ZZ	Drainage of Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019500Z	Drainage of Median Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
01950ZZ	Drainage of Median Nerve, Open Approach	PX	ICD-10-PCS
019540Z	Drainage of Median Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01954ZZ	Drainage of Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019600Z	Drainage of Radial Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
01960ZZ	Drainage of Radial Nerve, Open Approach	PX	ICD-10-PCS
019640Z	Drainage of Radial Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01964ZZ	Drainage of Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019800Z	Drainage of Thoracic Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
01980ZZ	Drainage of Thoracic Nerve, Open Approach	PX	ICD-10-PCS
019840Z	Drainage of Thoracic Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01984ZZ	Drainage of Thoracic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019900Z	Drainage of Lumbar Plexus with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01990ZZ	Drainage of Lumbar Plexus, Open Approach	PX	ICD-10-PCS
019940Z	Drainage of Lumbar Plexus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01994ZZ	Drainage of Lumbar Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019A00Z	Drainage of Lumbosacral Plexus with Drainage Device, Open Approach	PX	ICD-10-PCS
019A0ZZ	Drainage of Lumbosacral Plexus, Open Approach	PX	ICD-10-PCS
019A40Z	Drainage of Lumbosacral Plexus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019A4ZZ	Drainage of Lumbosacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019B00Z	Drainage of Lumbar Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019B0ZZ	Drainage of Lumbar Nerve, Open Approach	PX	ICD-10-PCS
019B40Z	Drainage of Lumbar Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019B4ZZ	Drainage of Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019C00Z	Drainage of Pudendal Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019C0ZZ	Drainage of Pudendal Nerve, Open Approach	PX	ICD-10-PCS
019C40Z	Drainage of Pudendal Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019C4ZZ	Drainage of Pudendal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019D00Z	Drainage of Femoral Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019D0ZZ	Drainage of Femoral Nerve, Open Approach	PX	ICD-10-PCS
019D40Z	Drainage of Femoral Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019D4ZZ	Drainage of Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019F00Z	Drainage of Sciatic Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019F0ZZ	Drainage of Sciatic Nerve, Open Approach	PX	ICD-10-PCS
019F40Z	Drainage of Sciatic Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019F4ZZ	Drainage of Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019G00Z	Drainage of Tibial Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019G0ZZ	Drainage of Tibial Nerve, Open Approach	PX	ICD-10-PCS
019G40Z	Drainage of Tibial Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019G4ZZ	Drainage of Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019H00Z	Drainage of Peroneal Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019H0ZZ	Drainage of Peroneal Nerve, Open Approach	PX	ICD-10-PCS
019H40Z	Drainage of Peroneal Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019H4ZZ	Drainage of Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019K00Z	Drainage of Head and Neck Sympathetic Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019K0ZZ	Drainage of Head and Neck Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
019K40Z	Drainage of Head and Neck Sympathetic Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
019K4ZZ	Drainage of Head and Neck Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019L00Z	Drainage of Thoracic Sympathetic Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019L0ZZ	Drainage of Thoracic Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
019L40Z	Drainage of Thoracic Sympathetic Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019L4ZZ	Drainage of Thoracic Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019M00Z	Drainage of Abdominal Sympathetic Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019M0ZZ	Drainage of Abdominal Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
019M40Z	Drainage of Abdominal Sympathetic Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019M4ZZ	Drainage of Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019N00Z	Drainage of Lumbar Sympathetic Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019N0ZZ	Drainage of Lumbar Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
019N40Z	Drainage of Lumbar Sympathetic Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019N4ZZ	Drainage of Lumbar Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019P00Z	Drainage of Sacral Sympathetic Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019P0ZZ	Drainage of Sacral Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
019P40Z	Drainage of Sacral Sympathetic Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019P4ZZ	Drainage of Sacral Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019Q00Z	Drainage of Sacral Plexus with Drainage Device, Open Approach	PX	ICD-10-PCS
019Q0ZZ	Drainage of Sacral Plexus, Open Approach	PX	ICD-10-PCS
019Q40Z	Drainage of Sacral Plexus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019Q4ZZ	Drainage of Sacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019R00Z	Drainage of Sacral Nerve with Drainage Device, Open Approach	PX	ICD-10-PCS
019R0ZZ	Drainage of Sacral Nerve, Open Approach	PX	ICD-10-PCS
019R40Z	Drainage of Sacral Nerve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
019R4ZZ	Drainage of Sacral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01B00ZZ	Excision of Cervical Plexus, Open Approach	PX	ICD-10-PCS
01B03ZZ	Excision of Cervical Plexus, Percutaneous Approach	PX	ICD-10-PCS
01B04ZZ	Excision of Cervical Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01B10ZZ	Excision of Cervical Nerve, Open Approach	PX	ICD-10-PCS
01B13ZZ	Excision of Cervical Nerve, Percutaneous Approach	PX	ICD-10-PCS
01B14ZZ	Excision of Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01B20ZZ	Excision of Phrenic Nerve, Open Approach	PX	ICD-10-PCS
01B23ZZ	Excision of Phrenic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01B24ZZ	Excision of Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01B30ZZ	Excision of Brachial Plexus, Open Approach	PX	ICD-10-PCS
01B33ZZ	Excision of Brachial Plexus, Percutaneous Approach	PX	ICD-10-PCS
01B34ZZ	Excision of Brachial Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01B40ZZ	Excision of Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01B43ZZ	Excision of Ulnar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01B44ZZ	Excision of Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01B50ZZ	Excision of Median Nerve, Open Approach	PX	ICD-10-PCS
01B53ZZ	Excision of Median Nerve, Percutaneous Approach	PX	ICD-10-PCS
01B54ZZ	Excision of Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01B60ZZ	Excision of Radial Nerve, Open Approach	PX	ICD-10-PCS
01B63ZZ	Excision of Radial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01B64ZZ	Excision of Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01B80ZZ	Excision of Thoracic Nerve, Open Approach	PX	ICD-10-PCS
01B83ZZ	Excision of Thoracic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01B84ZZ	Excision of Thoracic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01B90ZZ	Excision of Lumbar Plexus, Open Approach	PX	ICD-10-PCS
01B93ZZ	Excision of Lumbar Plexus, Percutaneous Approach	PX	ICD-10-PCS
01B94ZZ	Excision of Lumbar Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BA0ZZ	Excision of Lumbosacral Plexus, Open Approach	PX	ICD-10-PCS
01BA3ZZ	Excision of Lumbosacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01BA4ZZ	Excision of Lumbosacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BB0ZZ	Excision of Lumbar Nerve, Open Approach	PX	ICD-10-PCS
01BB3ZZ	Excision of Lumbar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BB4ZZ	Excision of Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BC0ZZ	Excision of Pudendal Nerve, Open Approach	PX	ICD-10-PCS
01BC3ZZ	Excision of Pudendal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BC4ZZ	Excision of Pudendal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BD0ZZ	Excision of Femoral Nerve, Open Approach	PX	ICD-10-PCS
01BD3ZZ	Excision of Femoral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BD4ZZ	Excision of Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BF0ZZ	Excision of Sciatic Nerve, Open Approach	PX	ICD-10-PCS
01BF3ZZ	Excision of Sciatic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BF4ZZ	Excision of Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BG0ZZ	Excision of Tibial Nerve, Open Approach	PX	ICD-10-PCS
01BG3ZZ	Excision of Tibial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BG4ZZ	Excision of Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BH0ZZ	Excision of Peroneal Nerve, Open Approach	PX	ICD-10-PCS
01BH3ZZ	Excision of Peroneal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BH4ZZ	Excision of Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BK0ZZ	Excision of Head and Neck Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01BK3ZZ	Excision of Head and Neck Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BK4ZZ	Excision of Head and Neck Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BL0ZZ	Excision of Thoracic Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01BL3ZZ	Excision of Thoracic Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BL4ZZ	Excision of Thoracic Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BM0ZZ	Excision of Abdominal Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01BM3ZZ	Excision of Abdominal Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01BM4ZZ	Excision of Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BN0ZZ	Excision of Lumbar Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01BN3ZZ	Excision of Lumbar Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BN4ZZ	Excision of Lumbar Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BP0ZZ	Excision of Sacral Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01BP3ZZ	Excision of Sacral Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BP4ZZ	Excision of Sacral Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BQ0ZZ	Excision of Sacral Plexus, Open Approach	PX	ICD-10-PCS
01BQ3ZZ	Excision of Sacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01BQ4ZZ	Excision of Sacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01BR0ZZ	Excision of Sacral Nerve, Open Approach	PX	ICD-10-PCS
01BR3ZZ	Excision of Sacral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01BR4ZZ	Excision of Sacral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01C00ZZ	Extirpation of Matter from Cervical Plexus, Open Approach	PX	ICD-10-PCS
01C03ZZ	Extirpation of Matter from Cervical Plexus, Percutaneous Approach	PX	ICD-10-PCS
01C04ZZ	Extirpation of Matter from Cervical Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01C10ZZ	Extirpation of Matter from Cervical Nerve, Open Approach	PX	ICD-10-PCS
01C13ZZ	Extirpation of Matter from Cervical Nerve, Percutaneous Approach	PX	ICD-10-PCS
01C14ZZ	Extirpation of Matter from Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01C20ZZ	Extirpation of Matter from Phrenic Nerve, Open Approach	PX	ICD-10-PCS
01C23ZZ	Extirpation of Matter from Phrenic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01C24ZZ	Extirpation of Matter from Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01C30ZZ	Extirpation of Matter from Brachial Plexus, Open Approach	PX	ICD-10-PCS
01C33ZZ	Extirpation of Matter from Brachial Plexus, Percutaneous Approach	PX	ICD-10-PCS
01C34ZZ	Extirpation of Matter from Brachial Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01C40ZZ	Extirpation of Matter from Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01C43ZZ	Extirpation of Matter from Ulnar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01C44ZZ	Extirpation of Matter from Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01C50ZZ	Extirpation of Matter from Median Nerve, Open Approach	PX	ICD-10-PCS
01C53ZZ	Extirpation of Matter from Median Nerve, Percutaneous Approach	PX	ICD-10-PCS
01C54ZZ	Extirpation of Matter from Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01C60ZZ	Extirpation of Matter from Radial Nerve, Open Approach	PX	ICD-10-PCS
01C63ZZ	Extirpation of Matter from Radial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01C64ZZ	Extirpation of Matter from Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01C80ZZ	Extirpation of Matter from Thoracic Nerve, Open Approach	PX	ICD-10-PCS
01C83ZZ	Extirpation of Matter from Thoracic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01C84ZZ	Extirpation of Matter from Thoracic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01C90ZZ	Extirpation of Matter from Lumbar Plexus, Open Approach	PX	ICD-10-PCS
01C93ZZ	Extirpation of Matter from Lumbar Plexus, Percutaneous Approach	PX	ICD-10-PCS
01C94ZZ	Extirpation of Matter from Lumbar Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CA0ZZ	Extirpation of Matter from Lumbosacral Plexus, Open Approach	PX	ICD-10-PCS
01CA3ZZ	Extirpation of Matter from Lumbosacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01CA4ZZ	Extirpation of Matter from Lumbosacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CB0ZZ	Extirpation of Matter from Lumbar Nerve, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01CB3ZZ	Extirpation of Matter from Lumbar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CB4ZZ	Extirpation of Matter from Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CC0ZZ	Extirpation of Matter from Pudendal Nerve, Open Approach	PX	ICD-10-PCS
01CC3ZZ	Extirpation of Matter from Pudendal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CC4ZZ	Extirpation of Matter from Pudendal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CD0ZZ	Extirpation of Matter from Femoral Nerve, Open Approach	PX	ICD-10-PCS
01CD3ZZ	Extirpation of Matter from Femoral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CD4ZZ	Extirpation of Matter from Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CF0ZZ	Extirpation of Matter from Sciatic Nerve, Open Approach	PX	ICD-10-PCS
01CF3ZZ	Extirpation of Matter from Sciatic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CF4ZZ	Extirpation of Matter from Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CG0ZZ	Extirpation of Matter from Tibial Nerve, Open Approach	PX	ICD-10-PCS
01CG3ZZ	Extirpation of Matter from Tibial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CG4ZZ	Extirpation of Matter from Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CH0ZZ	Extirpation of Matter from Peroneal Nerve, Open Approach	PX	ICD-10-PCS
01CH3ZZ	Extirpation of Matter from Peroneal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CH4ZZ	Extirpation of Matter from Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CK0ZZ	Extirpation of Matter from Head and Neck Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01CK3ZZ	Extirpation of Matter from Head and Neck Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CK4ZZ	Extirpation of Matter from Head and Neck Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CL0ZZ	Extirpation of Matter from Thoracic Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01CL3ZZ	Extirpation of Matter from Thoracic Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CL4ZZ	Extirpation of Matter from Thoracic Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CM0ZZ	Extirpation of Matter from Abdominal Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01CM3ZZ	Extirpation of Matter from Abdominal Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CM4ZZ	Extirpation of Matter from Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CN0ZZ	Extirpation of Matter from Lumbar Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01CN3ZZ	Extirpation of Matter from Lumbar Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CN4ZZ	Extirpation of Matter from Lumbar Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CP0ZZ	Extirpation of Matter from Sacral Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01CP3ZZ	Extirpation of Matter from Sacral Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CP4ZZ	Extirpation of Matter from Sacral Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CQ0ZZ	Extirpation of Matter from Sacral Plexus, Open Approach	PX	ICD-10-PCS
01CQ3ZZ	Extirpation of Matter from Sacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01CQ4ZZ	Extirpation of Matter from Sacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01CR0ZZ	Extirpation of Matter from Sacral Nerve, Open Approach	PX	ICD-10-PCS
01CR3ZZ	Extirpation of Matter from Sacral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01CR4ZZ	Extirpation of Matter from Sacral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01D00ZZ	Extraction of Cervical Plexus, Open Approach	PX	ICD-10-PCS
01D03ZZ	Extraction of Cervical Plexus, Percutaneous Approach	PX	ICD-10-PCS
01D04ZZ	Extraction of Cervical Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01D10ZZ	Extraction of Cervical Nerve, Open Approach	PX	ICD-10-PCS
01D13ZZ	Extraction of Cervical Nerve, Percutaneous Approach	PX	ICD-10-PCS
01D14ZZ	Extraction of Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01D20ZZ	Extraction of Phrenic Nerve, Open Approach	PX	ICD-10-PCS
01D23ZZ	Extraction of Phrenic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01D24ZZ	Extraction of Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01D30ZZ	Extraction of Brachial Plexus, Open Approach	PX	ICD-10-PCS
01D33ZZ	Extraction of Brachial Plexus, Percutaneous Approach	PX	ICD-10-PCS
01D34ZZ	Extraction of Brachial Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01D40ZZ	Extraction of Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01D43ZZ	Extraction of Ulnar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01D44ZZ	Extraction of Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01D50ZZ	Extraction of Median Nerve, Open Approach	PX	ICD-10-PCS
01D53ZZ	Extraction of Median Nerve, Percutaneous Approach	PX	ICD-10-PCS
01D54ZZ	Extraction of Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01D60ZZ	Extraction of Radial Nerve, Open Approach	PX	ICD-10-PCS
01D63ZZ	Extraction of Radial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01D64ZZ	Extraction of Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01D80ZZ	Extraction of Thoracic Nerve, Open Approach	PX	ICD-10-PCS
01D83ZZ	Extraction of Thoracic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01D84ZZ	Extraction of Thoracic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01D90ZZ	Extraction of Lumbar Plexus, Open Approach	PX	ICD-10-PCS
01D93ZZ	Extraction of Lumbar Plexus, Percutaneous Approach	PX	ICD-10-PCS
01D94ZZ	Extraction of Lumbar Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DA0ZZ	Extraction of Lumbosacral Plexus, Open Approach	PX	ICD-10-PCS
01DA3ZZ	Extraction of Lumbosacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01DA4ZZ	Extraction of Lumbosacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DB0ZZ	Extraction of Lumbar Nerve, Open Approach	PX	ICD-10-PCS
01DB3ZZ	Extraction of Lumbar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DB4ZZ	Extraction of Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DC0ZZ	Extraction of Pudendal Nerve, Open Approach	PX	ICD-10-PCS
01DC3ZZ	Extraction of Pudendal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DC4ZZ	Extraction of Pudendal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DD0ZZ	Extraction of Femoral Nerve, Open Approach	PX	ICD-10-PCS
01DD3ZZ	Extraction of Femoral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DD4ZZ	Extraction of Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DF0ZZ	Extraction of Sciatic Nerve, Open Approach	PX	ICD-10-PCS
01DF3ZZ	Extraction of Sciatic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DF4ZZ	Extraction of Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DG0ZZ	Extraction of Tibial Nerve, Open Approach	PX	ICD-10-PCS
01DG3ZZ	Extraction of Tibial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DG4ZZ	Extraction of Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01DH0ZZ	Extraction of Peroneal Nerve, Open Approach	PX	ICD-10-PCS
01DH3ZZ	Extraction of Peroneal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DH4ZZ	Extraction of Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DK0ZZ	Extraction of Head and Neck Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01DK3ZZ	Extraction of Head and Neck Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DK4ZZ	Extraction of Head and Neck Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DL0ZZ	Extraction of Thoracic Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01DL3ZZ	Extraction of Thoracic Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DL4ZZ	Extraction of Thoracic Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DM0ZZ	Extraction of Abdominal Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01DM3ZZ	Extraction of Abdominal Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DM4ZZ	Extraction of Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DN0ZZ	Extraction of Lumbar Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01DN3ZZ	Extraction of Lumbar Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DN4ZZ	Extraction of Lumbar Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DP0ZZ	Extraction of Sacral Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01DP3ZZ	Extraction of Sacral Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DP4ZZ	Extraction of Sacral Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DQ0ZZ	Extraction of Sacral Plexus, Open Approach	PX	ICD-10-PCS
01DQ3ZZ	Extraction of Sacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01DQ4ZZ	Extraction of Sacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01DR0ZZ	Extraction of Sacral Nerve, Open Approach	PX	ICD-10-PCS
01DR3ZZ	Extraction of Sacral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01DR4ZZ	Extraction of Sacral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01HY01Z	Insertion of Radioactive Element into Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01HY0MZ	Insertion of Neurostimulator Lead into Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01HY0YZ	Insertion of Other Device into Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01HY3MZ	Insertion of Neurostimulator Lead into Peripheral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01HY41Z	Insertion of Radioactive Element into Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01HY4MZ	Insertion of Neurostimulator Lead into Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01HY4YZ	Insertion of Other Device into Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01N00ZZ	Release Cervical Plexus, Open Approach	PX	ICD-10-PCS
01N03ZZ	Release Cervical Plexus, Percutaneous Approach	PX	ICD-10-PCS
01N04ZZ	Release Cervical Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01N10ZZ	Release Cervical Nerve, Open Approach	PX	ICD-10-PCS
01N13ZZ	Release Cervical Nerve, Percutaneous Approach	PX	ICD-10-PCS
01N14ZZ	Release Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01N20ZZ	Release Phrenic Nerve, Open Approach	PX	ICD-10-PCS
01N23ZZ	Release Phrenic Nerve, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01N24ZZ	Release Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01N30ZZ	Release Brachial Plexus, Open Approach	PX	ICD-10-PCS
01N33ZZ	Release Brachial Plexus, Percutaneous Approach	PX	ICD-10-PCS
01N34ZZ	Release Brachial Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01N40ZZ	Release Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01N43ZZ	Release Ulnar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01N44ZZ	Release Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01N50ZZ	Release Median Nerve, Open Approach	PX	ICD-10-PCS
01N53ZZ	Release Median Nerve, Percutaneous Approach	PX	ICD-10-PCS
01N54ZZ	Release Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01N60ZZ	Release Radial Nerve, Open Approach	PX	ICD-10-PCS
01N63ZZ	Release Radial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01N64ZZ	Release Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01N80ZZ	Release Thoracic Nerve, Open Approach	PX	ICD-10-PCS
01N83ZZ	Release Thoracic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01N84ZZ	Release Thoracic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01N90ZZ	Release Lumbar Plexus, Open Approach	PX	ICD-10-PCS
01N93ZZ	Release Lumbar Plexus, Percutaneous Approach	PX	ICD-10-PCS
01N94ZZ	Release Lumbar Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NA0ZZ	Release Lumbosacral Plexus, Open Approach	PX	ICD-10-PCS
01NA3ZZ	Release Lumbosacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01NA4ZZ	Release Lumbosacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NB0ZZ	Release Lumbar Nerve, Open Approach	PX	ICD-10-PCS
01NB3ZZ	Release Lumbar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01NB4ZZ	Release Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NC0ZZ	Release Pudendal Nerve, Open Approach	PX	ICD-10-PCS
01NC3ZZ	Release Pudendal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01NC4ZZ	Release Pudendal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01ND0ZZ	Release Femoral Nerve, Open Approach	PX	ICD-10-PCS
01ND3ZZ	Release Femoral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01ND4ZZ	Release Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NF0ZZ	Release Sciatic Nerve, Open Approach	PX	ICD-10-PCS
01NF3ZZ	Release Sciatic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01NF4ZZ	Release Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NG0ZZ	Release Tibial Nerve, Open Approach	PX	ICD-10-PCS
01NG3ZZ	Release Tibial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01NG4ZZ	Release Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NH0ZZ	Release Peroneal Nerve, Open Approach	PX	ICD-10-PCS
01NH3ZZ	Release Peroneal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01NH4ZZ	Release Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NK0ZZ	Release Head and Neck Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01NK3ZZ	Release Head and Neck Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01NK4ZZ	Release Head and Neck Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NL0ZZ	Release Thoracic Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01NL3ZZ	Release Thoracic Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01NL4ZZ	Release Thoracic Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NM0ZZ	Release Abdominal Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01NM3ZZ	Release Abdominal Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01NM4ZZ	Release Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NN0ZZ	Release Lumbar Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01NN3ZZ	Release Lumbar Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01NN4ZZ	Release Lumbar Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NP0ZZ	Release Sacral Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01NP3ZZ	Release Sacral Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01NP4ZZ	Release Sacral Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NQ0ZZ	Release Sacral Plexus, Open Approach	PX	ICD-10-PCS
01NQ3ZZ	Release Sacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01NQ4ZZ	Release Sacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01NR0ZZ	Release Sacral Nerve, Open Approach	PX	ICD-10-PCS
01NR3ZZ	Release Sacral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01NR4ZZ	Release Sacral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01PY00Z	Removal of Drainage Device from Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01PY02Z	Removal of Monitoring Device from Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01PY07Z	Removal of Autologous Tissue Substitute from Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01PY0MZ	Removal of Neurostimulator Lead from Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01PY0YZ	Removal of Other Device from Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01PY37Z	Removal of Autologous Tissue Substitute from Peripheral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01PY3MZ	Removal of Neurostimulator Lead from Peripheral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01PY40Z	Removal of Drainage Device from Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01PY42Z	Removal of Monitoring Device from Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01PY47Z	Removal of Autologous Tissue Substitute from Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01PY4MZ	Removal of Neurostimulator Lead from Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01PY4YZ	Removal of Other Device from Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01Q00ZZ	Repair Cervical Plexus, Open Approach	PX	ICD-10-PCS
01Q03ZZ	Repair Cervical Plexus, Percutaneous Approach	PX	ICD-10-PCS
01Q04ZZ	Repair Cervical Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01Q10ZZ	Repair Cervical Nerve, Open Approach	PX	ICD-10-PCS
01Q13ZZ	Repair Cervical Nerve, Percutaneous Approach	PX	ICD-10-PCS
01Q14ZZ	Repair Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01Q20ZZ	Repair Phrenic Nerve, Open Approach	PX	ICD-10-PCS
01Q23ZZ	Repair Phrenic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01Q24ZZ	Repair Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01Q30ZZ	Repair Brachial Plexus, Open Approach	PX	ICD-10-PCS
01Q33ZZ	Repair Brachial Plexus, Percutaneous Approach	PX	ICD-10-PCS
01Q34ZZ	Repair Brachial Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01Q40ZZ	Repair Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01Q43ZZ	Repair Ulnar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01Q44ZZ	Repair Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01Q50ZZ	Repair Median Nerve, Open Approach	PX	ICD-10-PCS
01Q53ZZ	Repair Median Nerve, Percutaneous Approach	PX	ICD-10-PCS
01Q54ZZ	Repair Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01Q60ZZ	Repair Radial Nerve, Open Approach	PX	ICD-10-PCS
01Q63ZZ	Repair Radial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01Q64ZZ	Repair Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01Q80ZZ	Repair Thoracic Nerve, Open Approach	PX	ICD-10-PCS
01Q83ZZ	Repair Thoracic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01Q84ZZ	Repair Thoracic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01Q90ZZ	Repair Lumbar Plexus, Open Approach	PX	ICD-10-PCS
01Q93ZZ	Repair Lumbar Plexus, Percutaneous Approach	PX	ICD-10-PCS
01Q94ZZ	Repair Lumbar Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QA0ZZ	Repair Lumbosacral Plexus, Open Approach	PX	ICD-10-PCS
01QA3ZZ	Repair Lumbosacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01QA4ZZ	Repair Lumbosacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QB0ZZ	Repair Lumbar Nerve, Open Approach	PX	ICD-10-PCS
01QB3ZZ	Repair Lumbar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QB4ZZ	Repair Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QC0ZZ	Repair Pudendal Nerve, Open Approach	PX	ICD-10-PCS
01QC3ZZ	Repair Pudendal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QC4ZZ	Repair Pudendal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QD0ZZ	Repair Femoral Nerve, Open Approach	PX	ICD-10-PCS
01QD3ZZ	Repair Femoral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QD4ZZ	Repair Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QF0ZZ	Repair Sciatic Nerve, Open Approach	PX	ICD-10-PCS
01QF3ZZ	Repair Sciatic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QF4ZZ	Repair Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QG0ZZ	Repair Tibial Nerve, Open Approach	PX	ICD-10-PCS
01QG3ZZ	Repair Tibial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QG4ZZ	Repair Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QH0ZZ	Repair Peroneal Nerve, Open Approach	PX	ICD-10-PCS
01QH3ZZ	Repair Peroneal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QH4ZZ	Repair Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QK0ZZ	Repair Head and Neck Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01QK3ZZ	Repair Head and Neck Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QK4ZZ	Repair Head and Neck Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QL0ZZ	Repair Thoracic Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01QL3ZZ	Repair Thoracic Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QL4ZZ	Repair Thoracic Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01QM0ZZ	Repair Abdominal Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01QM3ZZ	Repair Abdominal Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QM4ZZ	Repair Abdominal Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QN0ZZ	Repair Lumbar Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01QN3ZZ	Repair Lumbar Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QN4ZZ	Repair Lumbar Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QP0ZZ	Repair Sacral Sympathetic Nerve, Open Approach	PX	ICD-10-PCS
01QP3ZZ	Repair Sacral Sympathetic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QP4ZZ	Repair Sacral Sympathetic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QQ0ZZ	Repair Sacral Plexus, Open Approach	PX	ICD-10-PCS
01QQ3ZZ	Repair Sacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01QQ4ZZ	Repair Sacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01QR0ZZ	Repair Sacral Nerve, Open Approach	PX	ICD-10-PCS
01QR3ZZ	Repair Sacral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01QR4ZZ	Repair Sacral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R107Z	Replacement of Cervical Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R10JZ	Replacement of Cervical Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01R10KZ	Replacement of Cervical Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R147Z	Replacement of Cervical Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R14JZ	Replacement of Cervical Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R14KZ	Replacement of Cervical Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R207Z	Replacement of Phrenic Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R20JZ	Replacement of Phrenic Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01R20KZ	Replacement of Phrenic Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R247Z	Replacement of Phrenic Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R24JZ	Replacement of Phrenic Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R24KZ	Replacement of Phrenic Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R407Z	Replacement of Ulnar Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R40JZ	Replacement of Ulnar Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01R40KZ	Replacement of Ulnar Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R447Z	Replacement of Ulnar Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R44JZ	Replacement of Ulnar Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01R44KZ	Replacement of Ulnar Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R507Z	Replacement of Median Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R50JZ	Replacement of Median Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01R50KZ	Replacement of Median Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R547Z	Replacement of Median Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R54JZ	Replacement of Median Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R54KZ	Replacement of Median Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R607Z	Replacement of Radial Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R60JZ	Replacement of Radial Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01R60KZ	Replacement of Radial Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R647Z	Replacement of Radial Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R64JZ	Replacement of Radial Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R64KZ	Replacement of Radial Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R807Z	Replacement of Thoracic Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R80JZ	Replacement of Thoracic Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01R80KZ	Replacement of Thoracic Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01R847Z	Replacement of Thoracic Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R84JZ	Replacement of Thoracic Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01R84KZ	Replacement of Thoracic Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RB07Z	Replacement of Lumbar Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RB0JZ	Replacement of Lumbar Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01RB0KZ	Replacement of Lumbar Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RB47Z	Replacement of Lumbar Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RB4JZ	Replacement of Lumbar Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01RB4KZ	Replacement of Lumbar Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RC07Z	Replacement of Pudendal Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RC0JZ	Replacement of Pudendal Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01RC0KZ	Replacement of Pudendal Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RC47Z	Replacement of Pudendal Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RC4JZ	Replacement of Pudendal Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RC4KZ	Replacement of Pudendal Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RD07Z	Replacement of Femoral Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RD0JZ	Replacement of Femoral Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01RD0KZ	Replacement of Femoral Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RD47Z	Replacement of Femoral Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RD4JZ	Replacement of Femoral Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RD4KZ	Replacement of Femoral Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RF07Z	Replacement of Sciatic Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RF0JZ	Replacement of Sciatic Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01RF0KZ	Replacement of Sciatic Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RF47Z	Replacement of Sciatic Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RF4JZ	Replacement of Sciatic Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RF4KZ	Replacement of Sciatic Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RG07Z	Replacement of Tibial Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RG0JZ	Replacement of Tibial Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01RG0KZ	Replacement of Tibial Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RG47Z	Replacement of Tibial Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RG4JZ	Replacement of Tibial Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RG4KZ	Replacement of Tibial Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01RH07Z	Replacement of Peroneal Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RH0JZ	Replacement of Peroneal Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01RH0KZ	Replacement of Peroneal Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RH47Z	Replacement of Peroneal Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RH4JZ	Replacement of Peroneal Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RH4KZ	Replacement of Peroneal Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RR07Z	Replacement of Sacral Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RR0JZ	Replacement of Sacral Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01RR0KZ	Replacement of Sacral Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01RR47Z	Replacement of Sacral Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RR4JZ	Replacement of Sacral Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01RR4KZ	Replacement of Sacral Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01S00ZZ	Reposition Cervical Plexus, Open Approach	PX	ICD-10-PCS
01S03ZZ	Reposition Cervical Plexus, Percutaneous Approach	PX	ICD-10-PCS
01S04ZZ	Reposition Cervical Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01S10ZZ	Reposition Cervical Nerve, Open Approach	PX	ICD-10-PCS
01S13ZZ	Reposition Cervical Nerve, Percutaneous Approach	PX	ICD-10-PCS
01S14ZZ	Reposition Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01S20ZZ	Reposition Phrenic Nerve, Open Approach	PX	ICD-10-PCS
01S23ZZ	Reposition Phrenic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01S24ZZ	Reposition Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01S30ZZ	Reposition Brachial Plexus, Open Approach	PX	ICD-10-PCS
01S33ZZ	Reposition Brachial Plexus, Percutaneous Approach	PX	ICD-10-PCS
01S34ZZ	Reposition Brachial Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01S40ZZ	Reposition Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01S43ZZ	Reposition Ulnar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01S44ZZ	Reposition Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01S50ZZ	Reposition Median Nerve, Open Approach	PX	ICD-10-PCS
01S53ZZ	Reposition Median Nerve, Percutaneous Approach	PX	ICD-10-PCS
01S54ZZ	Reposition Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01S60ZZ	Reposition Radial Nerve, Open Approach	PX	ICD-10-PCS
01S63ZZ	Reposition Radial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01S64ZZ	Reposition Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01S80ZZ	Reposition Thoracic Nerve, Open Approach	PX	ICD-10-PCS
01S83ZZ	Reposition Thoracic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01S84ZZ	Reposition Thoracic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01S90ZZ	Reposition Lumbar Plexus, Open Approach	PX	ICD-10-PCS
01S93ZZ	Reposition Lumbar Plexus, Percutaneous Approach	PX	ICD-10-PCS
01S94ZZ	Reposition Lumbar Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01SA0ZZ	Reposition Lumbosacral Plexus, Open Approach	PX	ICD-10-PCS
01SA3ZZ	Reposition Lumbosacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01SA4ZZ	Reposition Lumbosacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01SB0ZZ	Reposition Lumbar Nerve, Open Approach	PX	ICD-10-PCS
01SB3ZZ	Reposition Lumbar Nerve, Percutaneous Approach	PX	ICD-10-PCS
01SB4ZZ	Reposition Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01SC0ZZ	Reposition Pudendal Nerve, Open Approach	PX	ICD-10-PCS
01SC3ZZ	Reposition Pudendal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01SC4ZZ	Reposition Pudendal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01SD0ZZ	Reposition Femoral Nerve, Open Approach	PX	ICD-10-PCS
01SD3ZZ	Reposition Femoral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01SD4ZZ	Reposition Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01SF0ZZ	Reposition Sciatic Nerve, Open Approach	PX	ICD-10-PCS
01SF3ZZ	Reposition Sciatic Nerve, Percutaneous Approach	PX	ICD-10-PCS
01SF4ZZ	Reposition Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01SG0ZZ	Reposition Tibial Nerve, Open Approach	PX	ICD-10-PCS
01SG3ZZ	Reposition Tibial Nerve, Percutaneous Approach	PX	ICD-10-PCS
01SG4ZZ	Reposition Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01SH0ZZ	Reposition Peroneal Nerve, Open Approach	PX	ICD-10-PCS
01SH3ZZ	Reposition Peroneal Nerve, Percutaneous Approach	PX	ICD-10-PCS
01SH4ZZ	Reposition Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01SQ0ZZ	Reposition Sacral Plexus, Open Approach	PX	ICD-10-PCS
01SQ3ZZ	Reposition Sacral Plexus, Percutaneous Approach	PX	ICD-10-PCS
01SQ4ZZ	Reposition Sacral Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01SR0ZZ	Reposition Sacral Nerve, Open Approach	PX	ICD-10-PCS
01SR3ZZ	Reposition Sacral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01SR4ZZ	Reposition Sacral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U107Z	Supplement Cervical Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U10JZ	Supplement Cervical Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01U10KZ	Supplement Cervical Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U137Z	Supplement Cervical Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U13JZ	Supplement Cervical Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U13KZ	Supplement Cervical Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U147Z	Supplement Cervical Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U14JZ	Supplement Cervical Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U14KZ	Supplement Cervical Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01U207Z	Supplement Phrenic Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U20JZ	Supplement Phrenic Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01U20KZ	Supplement Phrenic Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U237Z	Supplement Phrenic Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U23JZ	Supplement Phrenic Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U23KZ	Supplement Phrenic Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U247Z	Supplement Phrenic Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U24JZ	Supplement Phrenic Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U24KZ	Supplement Phrenic Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U407Z	Supplement Ulnar Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U40JZ	Supplement Ulnar Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01U40KZ	Supplement Ulnar Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U437Z	Supplement Ulnar Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U43JZ	Supplement Ulnar Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U43KZ	Supplement Ulnar Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U447Z	Supplement Ulnar Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U44JZ	Supplement Ulnar Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U44KZ	Supplement Ulnar Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U507Z	Supplement Median Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U50JZ	Supplement Median Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01U50KZ	Supplement Median Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U537Z	Supplement Median Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U53JZ	Supplement Median Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U53KZ	Supplement Median Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U547Z	Supplement Median Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U54JZ	Supplement Median Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U54KZ	Supplement Median Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U607Z	Supplement Radial Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01U60JZ	Supplement Radial Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01U60KZ	Supplement Radial Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U637Z	Supplement Radial Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U63JZ	Supplement Radial Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U63KZ	Supplement Radial Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U647Z	Supplement Radial Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U64JZ	Supplement Radial Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U64KZ	Supplement Radial Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U807Z	Supplement Thoracic Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U80JZ	Supplement Thoracic Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01U80KZ	Supplement Thoracic Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01U837Z	Supplement Thoracic Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U83JZ	Supplement Thoracic Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U83KZ	Supplement Thoracic Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01U847Z	Supplement Thoracic Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U84JZ	Supplement Thoracic Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01U84KZ	Supplement Thoracic Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UB07Z	Supplement Lumbar Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UB0JZ	Supplement Lumbar Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01UB0KZ	Supplement Lumbar Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UB37Z	Supplement Lumbar Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UB3JZ	Supplement Lumbar Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UB3KZ	Supplement Lumbar Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UB47Z	Supplement Lumbar Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UB4JZ	Supplement Lumbar Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UB4KZ	Supplement Lumbar Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UC07Z	Supplement Pudendal Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01UC0JZ	Supplement Pudendal Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01UC0KZ	Supplement Pudendal Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UC37Z	Supplement Pudendal Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UC3JZ	Supplement Pudendal Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UC3KZ	Supplement Pudendal Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UC47Z	Supplement Pudendal Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UC4JZ	Supplement Pudendal Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UC4KZ	Supplement Pudendal Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UD07Z	Supplement Femoral Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UD0JZ	Supplement Femoral Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01UD0KZ	Supplement Femoral Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UD37Z	Supplement Femoral Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UD3JZ	Supplement Femoral Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UD3KZ	Supplement Femoral Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UD47Z	Supplement Femoral Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UD4JZ	Supplement Femoral Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UD4KZ	Supplement Femoral Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UF07Z	Supplement Sciatic Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UF0JZ	Supplement Sciatic Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01UF0KZ	Supplement Sciatic Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UF37Z	Supplement Sciatic Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UF3JZ	Supplement Sciatic Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UF3KZ	Supplement Sciatic Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UF47Z	Supplement Sciatic Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UF4JZ	Supplement Sciatic Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UF4KZ	Supplement Sciatic Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UG07Z	Supplement Tibial Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01UG0JZ	Supplement Tibial Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01UG0KZ	Supplement Tibial Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UG37Z	Supplement Tibial Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UG3JZ	Supplement Tibial Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UG3KZ	Supplement Tibial Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UG47Z	Supplement Tibial Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UG4JZ	Supplement Tibial Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UG4KZ	Supplement Tibial Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UH07Z	Supplement Peroneal Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UH0JZ	Supplement Peroneal Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01UH0KZ	Supplement Peroneal Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UH37Z	Supplement Peroneal Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UH3JZ	Supplement Peroneal Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UH3KZ	Supplement Peroneal Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UH47Z	Supplement Peroneal Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UH4JZ	Supplement Peroneal Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UH4KZ	Supplement Peroneal Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UR07Z	Supplement Sacral Nerve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UR0JZ	Supplement Sacral Nerve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
01UR0KZ	Supplement Sacral Nerve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
01UR37Z	Supplement Sacral Nerve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UR3JZ	Supplement Sacral Nerve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UR3KZ	Supplement Sacral Nerve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
01UR47Z	Supplement Sacral Nerve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UR4JZ	Supplement Sacral Nerve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01UR4KZ	Supplement Sacral Nerve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01WY00Z	Revision of Drainage Device in Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01WY02Z	Revision of Monitoring Device in Peripheral Nerve, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
01WY07Z	Revision of Autologous Tissue Substitute in Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01WY0MZ	Revision of Neurostimulator Lead in Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01WY0YZ	Revision of Other Device in Peripheral Nerve, Open Approach	PX	ICD-10-PCS
01WY30Z	Revision of Drainage Device in Peripheral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01WY32Z	Revision of Monitoring Device in Peripheral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01WY37Z	Revision of Autologous Tissue Substitute in Peripheral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01WY3MZ	Revision of Neurostimulator Lead in Peripheral Nerve, Percutaneous Approach	PX	ICD-10-PCS
01WY40Z	Revision of Drainage Device in Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01WY42Z	Revision of Monitoring Device in Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01WY47Z	Revision of Autologous Tissue Substitute in Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01WY4MZ	Revision of Neurostimulator Lead in Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01WY4YZ	Revision of Other Device in Peripheral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X10Z1	Transfer Cervical Nerve to Cervical Nerve, Open Approach	PX	ICD-10-PCS
01X10Z2	Transfer Cervical Nerve to Phrenic Nerve, Open Approach	PX	ICD-10-PCS
01X14Z1	Transfer Cervical Nerve to Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X14Z2	Transfer Cervical Nerve to Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X20Z1	Transfer Phrenic Nerve to Cervical Nerve, Open Approach	PX	ICD-10-PCS
01X20Z2	Transfer Phrenic Nerve to Phrenic Nerve, Open Approach	PX	ICD-10-PCS
01X24Z1	Transfer Phrenic Nerve to Cervical Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X24Z2	Transfer Phrenic Nerve to Phrenic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X40Z4	Transfer Ulnar Nerve to Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01X40Z5	Transfer Ulnar Nerve to Median Nerve, Open Approach	PX	ICD-10-PCS
01X40Z6	Transfer Ulnar Nerve to Radial Nerve, Open Approach	PX	ICD-10-PCS
01X44Z4	Transfer Ulnar Nerve to Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X44Z5	Transfer Ulnar Nerve to Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X44Z6	Transfer Ulnar Nerve to Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X50Z4	Transfer Median Nerve to Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01X50Z5	Transfer Median Nerve to Median Nerve, Open Approach	PX	ICD-10-PCS
01X50Z6	Transfer Median Nerve to Radial Nerve, Open Approach	PX	ICD-10-PCS
01X54Z4	Transfer Median Nerve to Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X54Z5	Transfer Median Nerve to Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X54Z6	Transfer Median Nerve to Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X60Z4	Transfer Radial Nerve to Ulnar Nerve, Open Approach	PX	ICD-10-PCS
01X60Z5	Transfer Radial Nerve to Median Nerve, Open Approach	PX	ICD-10-PCS
01X60Z6	Transfer Radial Nerve to Radial Nerve, Open Approach	PX	ICD-10-PCS
01X64Z4	Transfer Radial Nerve to Ulnar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X64Z5	Transfer Radial Nerve to Median Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X64Z6	Transfer Radial Nerve to Radial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01X80Z8	Transfer Thoracic Nerve to Thoracic Nerve, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
01X84Z8	Transfer Thoracic Nerve to Thoracic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XB0ZB	Transfer Lumbar Nerve to Lumbar Nerve, Open Approach	PX	ICD-10-PCS
01XB0ZC	Transfer Lumbar Nerve to Perineal Nerve, Open Approach	PX	ICD-10-PCS
01XB4ZB	Transfer Lumbar Nerve to Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XB4ZC	Transfer Lumbar Nerve to Perineal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XC0ZB	Transfer Pudendal Nerve to Lumbar Nerve, Open Approach	PX	ICD-10-PCS
01XC0ZC	Transfer Pudendal Nerve to Perineal Nerve, Open Approach	PX	ICD-10-PCS
01XC4ZB	Transfer Pudendal Nerve to Lumbar Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XC4ZC	Transfer Pudendal Nerve to Perineal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XD0ZD	Transfer Femoral Nerve to Femoral Nerve, Open Approach	PX	ICD-10-PCS
01XD0ZF	Transfer Femoral Nerve to Sciatic Nerve, Open Approach	PX	ICD-10-PCS
01XD0ZG	Transfer Femoral Nerve to Tibial Nerve, Open Approach	PX	ICD-10-PCS
01XD0ZH	Transfer Femoral Nerve to Peroneal Nerve, Open Approach	PX	ICD-10-PCS
01XD4ZD	Transfer Femoral Nerve to Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XD4ZF	Transfer Femoral Nerve to Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XD4ZG	Transfer Femoral Nerve to Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XD4ZH	Transfer Femoral Nerve to Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XF0ZD	Transfer Sciatic Nerve to Femoral Nerve, Open Approach	PX	ICD-10-PCS
01XF0ZF	Transfer Sciatic Nerve to Sciatic Nerve, Open Approach	PX	ICD-10-PCS
01XF0ZG	Transfer Sciatic Nerve to Tibial Nerve, Open Approach	PX	ICD-10-PCS
01XF0ZH	Transfer Sciatic Nerve to Peroneal Nerve, Open Approach	PX	ICD-10-PCS
01XF4ZD	Transfer Sciatic Nerve to Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XF4ZF	Transfer Sciatic Nerve to Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XF4ZG	Transfer Sciatic Nerve to Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XF4ZH	Transfer Sciatic Nerve to Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XG0ZD	Transfer Tibial Nerve to Femoral Nerve, Open Approach	PX	ICD-10-PCS
01XG0ZF	Transfer Tibial Nerve to Sciatic Nerve, Open Approach	PX	ICD-10-PCS
01XG0ZG	Transfer Tibial Nerve to Tibial Nerve, Open Approach	PX	ICD-10-PCS
01XG0ZH	Transfer Tibial Nerve to Peroneal Nerve, Open Approach	PX	ICD-10-PCS
01XG4ZD	Transfer Tibial Nerve to Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XG4ZF	Transfer Tibial Nerve to Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XG4ZG	Transfer Tibial Nerve to Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XG4ZH	Transfer Tibial Nerve to Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XH0ZD	Transfer Peroneal Nerve to Femoral Nerve, Open Approach	PX	ICD-10-PCS
01XH0ZF	Transfer Peroneal Nerve to Sciatic Nerve, Open Approach	PX	ICD-10-PCS
01XH0ZG	Transfer Peroneal Nerve to Tibial Nerve, Open Approach	PX	ICD-10-PCS
01XH0ZH	Transfer Peroneal Nerve to Peroneal Nerve, Open Approach	PX	ICD-10-PCS
01XH4ZD	Transfer Peroneal Nerve to Femoral Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XH4ZF	Transfer Peroneal Nerve to Sciatic Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XH4ZG	Transfer Peroneal Nerve to Tibial Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
01XH4ZH	Transfer Peroneal Nerve to Peroneal Nerve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0210083	Bypass Coronary Artery, One Artery from Coronary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
0210088	Bypass Coronary Artery, One Artery from Right Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0210089	Bypass Coronary Artery, One Artery from Left Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021008C	Bypass Coronary Artery, One Artery from Thoracic Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021008F	Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021008W	Bypass Coronary Artery, One Artery from Aorta with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
0210093	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0210098	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0210099	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021009C	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021009F	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021009W	Bypass Coronary Artery, One Artery from Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
02100A3	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02100A8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02100A9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02100AC	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02100AF	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02100AW	Bypass Coronary Artery, One Artery from Aorta with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02100J3	Bypass Coronary Artery, One Artery from Coronary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02100J8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02100J9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02100JC	Bypass Coronary Artery, One Artery from Thoracic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02100JF	Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02100JW	Bypass Coronary Artery, One Artery from Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02100K3	Bypass Coronary Artery, One Artery from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02100K8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02100K9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02100KC	Bypass Coronary Artery, One Artery from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02100KF	Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02100KW	Bypass Coronary Artery, One Artery from Aorta with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02100Z3	Bypass Coronary Artery, One Artery from Coronary Artery, Open Approach	PX	ICD-10-PCS
02100Z8	Bypass Coronary Artery, One Artery from Right Internal Mammary, Open Approach	PX	ICD-10-PCS
02100Z9	Bypass Coronary Artery, One Artery from Left Internal Mammary, Open Approach	PX	ICD-10-PCS
02100ZC	Bypass Coronary Artery, One Artery from Thoracic Artery, Open Approach	PX	ICD-10-PCS
02100ZF	Bypass Coronary Artery, One Artery from Abdominal Artery, Open Approach	PX	ICD-10-PCS
0210344	Bypass Coronary Artery, One Artery from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02103D4	Bypass Coronary Artery, One Artery from Coronary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0210444	Bypass Coronary Artery, One Artery from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0210483	Bypass Coronary Artery, One Artery from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0210488	Bypass Coronary Artery, One Artery from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0210489	Bypass Coronary Artery, One Artery from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021048C	Bypass Coronary Artery, One Artery from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021048F	Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021048W	Bypass Coronary Artery, One Artery from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0210493	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0210498	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0210499	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021049C	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021049F	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021049W	Bypass Coronary Artery, One Artery from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104A3	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104A8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104A9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104AC	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104AF	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104AW	Bypass Coronary Artery, One Artery from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104D4	Bypass Coronary Artery, One Artery from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104J3	Bypass Coronary Artery, One Artery from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104J8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104J9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104JC	Bypass Coronary Artery, One Artery from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104JF	Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104JW	Bypass Coronary Artery, One Artery from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104K3	Bypass Coronary Artery, One Artery from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104K8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104K9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104KC	Bypass Coronary Artery, One Artery from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104KF	Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104KW	Bypass Coronary Artery, One Artery from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104Z3	Bypass Coronary Artery, One Artery from Coronary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02104Z8	Bypass Coronary Artery, One Artery from Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104Z9	Bypass Coronary Artery, One Artery from Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104ZC	Bypass Coronary Artery, One Artery from Thoracic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02104ZF	Bypass Coronary Artery, One Artery from Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0211083	Bypass Coronary Artery, Two Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
0211088	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
0211089	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021108C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021108F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021108W	Bypass Coronary Artery, Two Arteries from Aorta with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
0211093	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0211098	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0211099	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021109C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021109F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021109W	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
02110A3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02110A8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02110A9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02110AC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02110AF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02110AW	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02110J3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02110J8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02110J9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02110JC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02110JF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02110JW	Bypass Coronary Artery, Two Arteries from Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02110K3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02110K8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02110K9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02110KC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02110KF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02110KW	Bypass Coronary Artery, Two Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02110Z3	Bypass Coronary Artery, Two Arteries from Coronary Artery, Open Approach	PX	ICD-10-PCS
02110Z8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary, Open Approach	PX	ICD-10-PCS
02110Z9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary, Open Approach	PX	ICD-10-PCS
02110ZC	Bypass Coronary Artery, Two Arteries from Thoracic Artery, Open Approach	PX	ICD-10-PCS
02110ZF	Bypass Coronary Artery, Two Arteries from Abdominal Artery, Open Approach	PX	ICD-10-PCS
0211344	Bypass Coronary Artery, Two Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02113D4	Bypass Coronary Artery, Two Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0211444	Bypass Coronary Artery, Two Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0211483	Bypass Coronary Artery, Two Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0211488	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0211489	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021148C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021148F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021148W	Bypass Coronary Artery, Two Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0211493	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0211498	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0211499	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021149C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021149F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021149W	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114A3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114A8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114A9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114AC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114AF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114AW	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114D4	Bypass Coronary Artery, Two Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114J3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114J8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114J9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114JC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114JF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114JW	Bypass Coronary Artery, Two Arteries from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114K3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02114K8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114K9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114KC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114KF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114KW	Bypass Coronary Artery, Two Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114Z3	Bypass Coronary Artery, Two Arteries from Coronary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114Z8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114Z9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114ZC	Bypass Coronary Artery, Two Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02114ZF	Bypass Coronary Artery, Two Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0212083	Bypass Coronary Artery, Three Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
0212088	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
0212089	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021208C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021208F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021208W	Bypass Coronary Artery, Three Arteries from Aorta with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
0212093	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0212098	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0212099	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021209C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021209F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021209W	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02120A3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02120A8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02120A9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02120AC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02120AF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02120AW	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02120J3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02120J8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02120J9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02120JC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02120JF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02120JW	Bypass Coronary Artery, Three Arteries from Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02120K3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02120K8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02120K9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02120KC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02120KF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02120KW	Bypass Coronary Artery, Three Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02120Z3	Bypass Coronary Artery, Three Arteries from Coronary Artery, Open Approach	PX	ICD-10-PCS
02120Z8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary, Open Approach	PX	ICD-10-PCS
02120Z9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary, Open Approach	PX	ICD-10-PCS
02120ZC	Bypass Coronary Artery, Three Arteries from Thoracic Artery, Open Approach	PX	ICD-10-PCS
02120ZF	Bypass Coronary Artery, Three Arteries from Abdominal Artery, Open Approach	PX	ICD-10-PCS
0212344	Bypass Coronary Artery, Three Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02123D4	Bypass Coronary Artery, Three Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0212444	Bypass Coronary Artery, Three Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0212483	Bypass Coronary Artery, Three Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0212488	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0212489	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021248C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021248F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021248W	Bypass Coronary Artery, Three Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0212493	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0212498	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0212499	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021249C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021249F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021249W	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124A3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124A8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124A9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124AC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124AF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124AW	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124D4	Bypass Coronary Artery, Three Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124J3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02124J8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124J9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124JC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124JF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124JW	Bypass Coronary Artery, Three Arteries from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124K3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124K8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124K9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124KC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124KF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124KW	Bypass Coronary Artery, Three Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124Z3	Bypass Coronary Artery, Three Arteries from Coronary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124Z8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124Z9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124ZC	Bypass Coronary Artery, Three Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02124ZF	Bypass Coronary Artery, Three Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0213083	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
0213088	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
0213089	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021308C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021308F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021308W	Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0213093	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0213098	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0213099	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021309C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021309F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021309W	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
02130A3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02130A8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02130A9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02130AC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02130AF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02130AW	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02130J3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02130J8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02130J9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02130JC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02130JF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02130JW	Bypass Coronary Artery, Four or More Arteries from Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02130K3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02130K8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02130K9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02130KC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02130KF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02130KW	Bypass Coronary Artery, Four or More Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02130Z3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery, Open Approach	PX	ICD-10-PCS
02130Z8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary, Open Approach	PX	ICD-10-PCS
02130Z9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary, Open Approach	PX	ICD-10-PCS
02130ZC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery, Open Approach	PX	ICD-10-PCS
02130ZF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery, Open Approach	PX	ICD-10-PCS
0213344	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02133D4	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0213444	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0213483	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0213488	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0213489	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021348C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021348F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021348W	Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0213493	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0213498	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0213499	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021349C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021349F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021349W	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02134A3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134A8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134A9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134AC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134AF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134AW	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134D4	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134J3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134J8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134J9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134JC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134JF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134JW	Bypass Coronary Artery, Four or More Arteries from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134K3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134K8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134K9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134KC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134KF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134KW	Bypass Coronary Artery, Four or More Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134Z3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134Z8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134Z9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02134ZC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02134ZF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021608P	Bypass Right Atrium to Pulmonary Trunk with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021608Q	Bypass Right Atrium to Right Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021608R	Bypass Right Atrium to Left Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021609P	Bypass Right Atrium to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021609Q	Bypass Right Atrium to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021609R	Bypass Right Atrium to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
02160AP	Bypass Right Atrium to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02160AQ	Bypass Right Atrium to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02160AR	Bypass Right Atrium to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02160JP	Bypass Right Atrium to Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02160JQ	Bypass Right Atrium to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02160JR	Bypass Right Atrium to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02160KP	Bypass Right Atrium to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02160KQ	Bypass Right Atrium to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02160KR	Bypass Right Atrium to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02160Z7	Bypass Right Atrium to Left Atrium, Open Approach	PX	ICD-10-PCS
02160ZP	Bypass Right Atrium to Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
02160ZQ	Bypass Right Atrium to Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02160ZR	Bypass Right Atrium to Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02163Z7	Bypass Right Atrium to Left Atrium, Percutaneous Approach	PX	ICD-10-PCS
021648P	Bypass Right Atrium to Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021648Q	Bypass Right Atrium to Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021648R	Bypass Right Atrium to Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021649P	Bypass Right Atrium to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021649Q	Bypass Right Atrium to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021649R	Bypass Right Atrium to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164AP	Bypass Right Atrium to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164AQ	Bypass Right Atrium to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164AR	Bypass Right Atrium to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164JP	Bypass Right Atrium to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164JQ	Bypass Right Atrium to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164JR	Bypass Right Atrium to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164KP	Bypass Right Atrium to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164KQ	Bypass Right Atrium to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164KR	Bypass Right Atrium to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164Z7	Bypass Right Atrium to Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164ZP	Bypass Right Atrium to Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164ZQ	Bypass Right Atrium to Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02164ZR	Bypass Right Atrium to Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021708P	Bypass Left Atrium to Pulmonary Trunk with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021708Q	Bypass Left Atrium to Right Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021708R	Bypass Left Atrium to Left Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021708S	Bypass Left Atrium to Right Pulmonary Vein with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021708T	Bypass Left Atrium to Left Pulmonary Vein with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021708U	Bypass Left Atrium to Pulmonary Vein Confluence with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021709P	Bypass Left Atrium to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021709Q	Bypass Left Atrium to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
021709R	Bypass Left Atrium to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021709S	Bypass Left Atrium to Right Pulmonary Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021709T	Bypass Left Atrium to Left Pulmonary Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021709U	Bypass Left Atrium to Pulmonary Vein Confluence with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
02170AP	Bypass Left Atrium to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02170AQ	Bypass Left Atrium to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02170AR	Bypass Left Atrium to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02170AS	Bypass Left Atrium to Right Pulmonary Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02170AT	Bypass Left Atrium to Left Pulmonary Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02170AU	Bypass Left Atrium to Pulmonary Vein Confluence with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
02170JP	Bypass Left Atrium to Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02170JQ	Bypass Left Atrium to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02170JR	Bypass Left Atrium to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02170JS	Bypass Left Atrium to Right Pulmonary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02170JT	Bypass Left Atrium to Left Pulmonary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02170JU	Bypass Left Atrium to Pulmonary Vein Confluence with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02170KP	Bypass Left Atrium to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02170KQ	Bypass Left Atrium to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02170KR	Bypass Left Atrium to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02170KS	Bypass Left Atrium to Right Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02170KT	Bypass Left Atrium to Left Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02170KU	Bypass Left Atrium to Pulmonary Vein Confluence with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02170ZP	Bypass Left Atrium to Pulmonary Trunk, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02170ZQ	Bypass Left Atrium to Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02170ZR	Bypass Left Atrium to Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02170ZS	Bypass Left Atrium to Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02170ZT	Bypass Left Atrium to Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02170ZU	Bypass Left Atrium to Pulmonary Vein Confluence, Open Approach	PX	ICD-10-PCS
02173J6	Bypass Left Atrium to Right Atrium with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
021748P	Bypass Left Atrium to Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021748Q	Bypass Left Atrium to Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021748R	Bypass Left Atrium to Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021748S	Bypass Left Atrium to Right Pulmonary Vein with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021748T	Bypass Left Atrium to Left Pulmonary Vein with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021748U	Bypass Left Atrium to Pulmonary Vein Confluence with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021749P	Bypass Left Atrium to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021749Q	Bypass Left Atrium to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021749R	Bypass Left Atrium to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021749S	Bypass Left Atrium to Right Pulmonary Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021749T	Bypass Left Atrium to Left Pulmonary Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021749U	Bypass Left Atrium to Pulmonary Vein Confluence with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174AP	Bypass Left Atrium to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174AQ	Bypass Left Atrium to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174AR	Bypass Left Atrium to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174AS	Bypass Left Atrium to Right Pulmonary Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174AT	Bypass Left Atrium to Left Pulmonary Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174AU	Bypass Left Atrium to Pulmonary Vein Confluence with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174JP	Bypass Left Atrium to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02174JQ	Bypass Left Atrium to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174JR	Bypass Left Atrium to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174JS	Bypass Left Atrium to Right Pulmonary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174JT	Bypass Left Atrium to Left Pulmonary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174JU	Bypass Left Atrium to Pulmonary Vein Confluence with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174KP	Bypass Left Atrium to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174KQ	Bypass Left Atrium to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174KR	Bypass Left Atrium to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174KS	Bypass Left Atrium to Right Pulmonary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174KT	Bypass Left Atrium to Left Pulmonary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174KU	Bypass Left Atrium to Pulmonary Vein Confluence with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174ZP	Bypass Left Atrium to Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174ZQ	Bypass Left Atrium to Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174ZR	Bypass Left Atrium to Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174ZS	Bypass Left Atrium to Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174ZT	Bypass Left Atrium to Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02174ZU	Bypass Left Atrium to Pulmonary Vein Confluence, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K08P	Bypass Right Ventricle to Pulmonary Trunk with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021K08Q	Bypass Right Ventricle to Right Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021K08R	Bypass Right Ventricle to Left Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021K09P	Bypass Right Ventricle to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021K09Q	Bypass Right Ventricle to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021K09R	Bypass Right Ventricle to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021K0AP	Bypass Right Ventricle to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021K0AQ	Bypass Right Ventricle to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021K0AR	Bypass Right Ventricle to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021K0JP	Bypass Right Ventricle to Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021K0JQ	Bypass Right Ventricle to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021K0JR	Bypass Right Ventricle to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021K0KP	Bypass Right Ventricle to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021K0KQ	Bypass Right Ventricle to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021K0KR	Bypass Right Ventricle to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021K0Z5	Bypass Right Ventricle to Coronary Circulation, Open Approach	PX	ICD-10-PCS
021K0Z8	Bypass Right Ventricle to Right Internal Mammary, Open Approach	PX	ICD-10-PCS
021K0Z9	Bypass Right Ventricle to Left Internal Mammary, Open Approach	PX	ICD-10-PCS
021K0ZC	Bypass Right Ventricle to Thoracic Artery, Open Approach	PX	ICD-10-PCS
021K0ZF	Bypass Right Ventricle to Abdominal Artery, Open Approach	PX	ICD-10-PCS
021K0ZP	Bypass Right Ventricle to Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
021K0ZQ	Bypass Right Ventricle to Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
021K0ZR	Bypass Right Ventricle to Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
021K0ZW	Bypass Right Ventricle to Aorta, Open Approach	PX	ICD-10-PCS
021K48P	Bypass Right Ventricle to Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K48Q	Bypass Right Ventricle to Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K48R	Bypass Right Ventricle to Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K49P	Bypass Right Ventricle to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K49Q	Bypass Right Ventricle to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K49R	Bypass Right Ventricle to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4AP	Bypass Right Ventricle to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4AQ	Bypass Right Ventricle to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4AR	Bypass Right Ventricle to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021K4JP	Bypass Right Ventricle to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4JQ	Bypass Right Ventricle to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4JR	Bypass Right Ventricle to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4KP	Bypass Right Ventricle to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4KQ	Bypass Right Ventricle to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4KR	Bypass Right Ventricle to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4Z5	Bypass Right Ventricle to Coronary Circulation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4Z8	Bypass Right Ventricle to Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4Z9	Bypass Right Ventricle to Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4ZC	Bypass Right Ventricle to Thoracic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4ZF	Bypass Right Ventricle to Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4ZP	Bypass Right Ventricle to Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4ZQ	Bypass Right Ventricle to Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4ZR	Bypass Right Ventricle to Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021K4ZW	Bypass Right Ventricle to Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L08P	Bypass Left Ventricle to Pulmonary Trunk with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021L08Q	Bypass Left Ventricle to Right Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021L08R	Bypass Left Ventricle to Left Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021L09P	Bypass Left Ventricle to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021L09Q	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021L09R	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021L0AP	Bypass Left Ventricle to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021L0AQ	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021L0AR	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021L0JP	Bypass Left Ventricle to Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021L0JQ	Bypass Left Ventricle to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021L0JR	Bypass Left Ventricle to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021L0KP	Bypass Left Ventricle to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021L0KQ	Bypass Left Ventricle to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021L0KR	Bypass Left Ventricle to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021L0Z5	Bypass Left Ventricle to Coronary Circulation, Open Approach	PX	ICD-10-PCS
021L0Z8	Bypass Left Ventricle to Right Internal Mammary, Open Approach	PX	ICD-10-PCS
021L0Z9	Bypass Left Ventricle to Left Internal Mammary, Open Approach	PX	ICD-10-PCS
021L0ZC	Bypass Left Ventricle to Thoracic Artery, Open Approach	PX	ICD-10-PCS
021L0ZF	Bypass Left Ventricle to Abdominal Artery, Open Approach	PX	ICD-10-PCS
021L0ZP	Bypass Left Ventricle to Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
021L0ZQ	Bypass Left Ventricle to Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
021L0ZR	Bypass Left Ventricle to Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
021L0ZW	Bypass Left Ventricle to Aorta, Open Approach	PX	ICD-10-PCS
021L48P	Bypass Left Ventricle to Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L48Q	Bypass Left Ventricle to Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L48R	Bypass Left Ventricle to Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L49P	Bypass Left Ventricle to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L49Q	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L49R	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4AP	Bypass Left Ventricle to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4AQ	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4AR	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4JP	Bypass Left Ventricle to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4JQ	Bypass Left Ventricle to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4JR	Bypass Left Ventricle to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021L4KP	Bypass Left Ventricle to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4KQ	Bypass Left Ventricle to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4KR	Bypass Left Ventricle to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4Z5	Bypass Left Ventricle to Coronary Circulation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4Z8	Bypass Left Ventricle to Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4Z9	Bypass Left Ventricle to Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4ZC	Bypass Left Ventricle to Thoracic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4ZF	Bypass Left Ventricle to Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4ZP	Bypass Left Ventricle to Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4ZQ	Bypass Left Ventricle to Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4ZR	Bypass Left Ventricle to Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021L4ZW	Bypass Left Ventricle to Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P08A	Bypass Pulmonary Trunk from Innominate Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021P08B	Bypass Pulmonary Trunk from Subclavian with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021P08D	Bypass Pulmonary Trunk from Carotid with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021P09A	Bypass Pulmonary Trunk from Innominate Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021P09B	Bypass Pulmonary Trunk from Subclavian with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021P09D	Bypass Pulmonary Trunk from Carotid with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021P0AA	Bypass Pulmonary Trunk from Innominate Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021P0AB	Bypass Pulmonary Trunk from Subclavian with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021P0AD	Bypass Pulmonary Trunk from Carotid with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021P0JA	Bypass Pulmonary Trunk from Innominate Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021P0JB	Bypass Pulmonary Trunk from Subclavian with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021P0JD	Bypass Pulmonary Trunk from Carotid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021P0KA	Bypass Pulmonary Trunk from Innominate Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021P0KB	Bypass Pulmonary Trunk from Subclavian with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021P0KD	Bypass Pulmonary Trunk from Carotid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021P0ZA	Bypass Pulmonary Trunk from Innominate Artery with No Device, Open Approach	PX	ICD-10-PCS
021P0ZB	Bypass Pulmonary Trunk from Subclavian with No Device, Open Approach	PX	ICD-10-PCS
021P0ZD	Bypass Pulmonary Trunk from Carotid with No Device, Open Approach	PX	ICD-10-PCS
021P48A	Bypass Pulmonary Trunk from Innominate Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P48B	Bypass Pulmonary Trunk from Subclavian with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P48D	Bypass Pulmonary Trunk from Carotid with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P49A	Bypass Pulmonary Trunk from Innominate Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P49B	Bypass Pulmonary Trunk from Subclavian with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P49D	Bypass Pulmonary Trunk from Carotid with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4AA	Bypass Pulmonary Trunk from Innominate Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4AB	Bypass Pulmonary Trunk from Subclavian with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4AD	Bypass Pulmonary Trunk from Carotid with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4JA	Bypass Pulmonary Trunk from Innominate Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4JB	Bypass Pulmonary Trunk from Subclavian with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4JD	Bypass Pulmonary Trunk from Carotid with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4KA	Bypass Pulmonary Trunk from Innominate Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4KB	Bypass Pulmonary Trunk from Subclavian with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4KD	Bypass Pulmonary Trunk from Carotid with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4ZA	Bypass Pulmonary Trunk from Innominate Artery with No Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4ZB	Bypass Pulmonary Trunk from Subclavian with No Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021P4ZD	Bypass Pulmonary Trunk from Carotid with No Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021Q08A	Bypass Right Pulmonary Artery from Innominate Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021Q08B	Bypass Right Pulmonary Artery from Subclavian with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021Q08D	Bypass Right Pulmonary Artery from Carotid with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021Q09A	Bypass Right Pulmonary Artery from Innominate Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021Q09B	Bypass Right Pulmonary Artery from Subclavian with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021Q09D	Bypass Right Pulmonary Artery from Carotid with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021Q0AA	Bypass Right Pulmonary Artery from Innominate Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021Q0AB	Bypass Right Pulmonary Artery from Subclavian with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021Q0AD	Bypass Right Pulmonary Artery from Carotid with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021Q0JA	Bypass Right Pulmonary Artery from Innominate Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021Q0JB	Bypass Right Pulmonary Artery from Subclavian with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021Q0JD	Bypass Right Pulmonary Artery from Carotid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021Q0KA	Bypass Right Pulmonary Artery from Innominate Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021Q0KB	Bypass Right Pulmonary Artery from Subclavian with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021Q0KD	Bypass Right Pulmonary Artery from Carotid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021Q0ZA	Bypass Right Pulmonary Artery from Innominate Artery with No Device, Open Approach	PX	ICD-10-PCS
021Q0ZB	Bypass Right Pulmonary Artery from Subclavian with No Device, Open Approach	PX	ICD-10-PCS
021Q0ZD	Bypass Right Pulmonary Artery from Carotid with No Device, Open Approach	PX	ICD-10-PCS
021Q48A	Bypass Right Pulmonary Artery from Innominate Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q48B	Bypass Right Pulmonary Artery from Subclavian with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q48D	Bypass Right Pulmonary Artery from Carotid with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q49A	Bypass Right Pulmonary Artery from Innominate Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q49B	Bypass Right Pulmonary Artery from Subclavian with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021Q49D	Bypass Right Pulmonary Artery from Carotid with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4AA	Bypass Right Pulmonary Artery from Innominate Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4AB	Bypass Right Pulmonary Artery from Subclavian with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4AD	Bypass Right Pulmonary Artery from Carotid with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4JA	Bypass Right Pulmonary Artery from Innominate Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4JB	Bypass Right Pulmonary Artery from Subclavian with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4JD	Bypass Right Pulmonary Artery from Carotid with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4KA	Bypass Right Pulmonary Artery from Innominate Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4KB	Bypass Right Pulmonary Artery from Subclavian with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4KD	Bypass Right Pulmonary Artery from Carotid with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4ZA	Bypass Right Pulmonary Artery from Innominate Artery with No Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4ZB	Bypass Right Pulmonary Artery from Subclavian with No Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021Q4ZD	Bypass Right Pulmonary Artery from Carotid with No Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R08A	Bypass Left Pulmonary Artery from Innominate Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021R08B	Bypass Left Pulmonary Artery from Subclavian with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021R08D	Bypass Left Pulmonary Artery from Carotid with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021R09A	Bypass Left Pulmonary Artery from Innominate Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021R09B	Bypass Left Pulmonary Artery from Subclavian with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021R09D	Bypass Left Pulmonary Artery from Carotid with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021R0AA	Bypass Left Pulmonary Artery from Innominate Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021R0AB	Bypass Left Pulmonary Artery from Subclavian with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021R0AD	Bypass Left Pulmonary Artery from Carotid with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021R0JA	Bypass Left Pulmonary Artery from Innominate Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021R0JB	Bypass Left Pulmonary Artery from Subclavian with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021R0JD	Bypass Left Pulmonary Artery from Carotid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021R0KA	Bypass Left Pulmonary Artery from Innominate Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021R0KB	Bypass Left Pulmonary Artery from Subclavian with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021R0KD	Bypass Left Pulmonary Artery from Carotid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021R0ZA	Bypass Left Pulmonary Artery from Innominate Artery with No Device, Open Approach	PX	ICD-10-PCS
021R0ZB	Bypass Left Pulmonary Artery from Subclavian with No Device, Open Approach	PX	ICD-10-PCS
021R0ZD	Bypass Left Pulmonary Artery from Carotid with No Device, Open Approach	PX	ICD-10-PCS
021R48A	Bypass Left Pulmonary Artery from Innominate Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R48B	Bypass Left Pulmonary Artery from Subclavian with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R48D	Bypass Left Pulmonary Artery from Carotid with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R49A	Bypass Left Pulmonary Artery from Innominate Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R49B	Bypass Left Pulmonary Artery from Subclavian with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R49D	Bypass Left Pulmonary Artery from Carotid with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4AA	Bypass Left Pulmonary Artery from Innominate Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4AB	Bypass Left Pulmonary Artery from Subclavian with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4AD	Bypass Left Pulmonary Artery from Carotid with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4JA	Bypass Left Pulmonary Artery from Innominate Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4JB	Bypass Left Pulmonary Artery from Subclavian with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4JD	Bypass Left Pulmonary Artery from Carotid with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4KA	Bypass Left Pulmonary Artery from Innominate Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4KB	Bypass Left Pulmonary Artery from Subclavian with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021R4KD	Bypass Left Pulmonary Artery from Carotid with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4ZA	Bypass Left Pulmonary Artery from Innominate Artery with No Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4ZB	Bypass Left Pulmonary Artery from Subclavian with No Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021R4ZD	Bypass Left Pulmonary Artery from Carotid with No Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V08P	Bypass Superior Vena Cava to Pulmonary Trunk with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021V08Q	Bypass Superior Vena Cava to Right Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021V08R	Bypass Superior Vena Cava to Left Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021V08S	Bypass Superior Vena Cava to Right Pulmonary Vein with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021V08T	Bypass Superior Vena Cava to Left Pulmonary Vein with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021V08U	Bypass Superior Vena Cava to Pulmonary Vein Confluence with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021V09P	Bypass Superior Vena Cava to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021V09Q	Bypass Superior Vena Cava to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021V09R	Bypass Superior Vena Cava to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021V09S	Bypass Superior Vena Cava to Right Pulmonary Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021V09T	Bypass Superior Vena Cava to Left Pulmonary Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021V09U	Bypass Superior Vena Cava to Pulmonary Vein Confluence with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021V0AP	Bypass Superior Vena Cava to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021V0AQ	Bypass Superior Vena Cava to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021V0AR	Bypass Superior Vena Cava to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021V0AS	Bypass Superior Vena Cava to Right Pulmonary Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021V0AT	Bypass Superior Vena Cava to Left Pulmonary Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021V0AU	Bypass Superior Vena Cava to Pulmonary Vein Confluence with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021V0JP	Bypass Superior Vena Cava to Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021V0JQ	Bypass Superior Vena Cava to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021V0JR	Bypass Superior Vena Cava to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021V0JS	Bypass Superior Vena Cava to Right Pulmonary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021V0JT	Bypass Superior Vena Cava to Left Pulmonary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021V0JU	Bypass Superior Vena Cava to Pulmonary Vein Confluence with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021V0KP	Bypass Superior Vena Cava to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021V0KQ	Bypass Superior Vena Cava to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021V0KR	Bypass Superior Vena Cava to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021V0KS	Bypass Superior Vena Cava to Right Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021V0KT	Bypass Superior Vena Cava to Left Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021V0KU	Bypass Superior Vena Cava to Pulmonary Vein Confluence with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021V0ZP	Bypass Superior Vena Cava to Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
021V0ZQ	Bypass Superior Vena Cava to Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
021V0ZR	Bypass Superior Vena Cava to Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
021V0ZS	Bypass Superior Vena Cava to Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
021V0ZT	Bypass Superior Vena Cava to Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
021V0ZU	Bypass Superior Vena Cava to Pulmonary Vein Confluence, Open Approach	PX	ICD-10-PCS
021V48P	Bypass Superior Vena Cava to Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V48Q	Bypass Superior Vena Cava to Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V48R	Bypass Superior Vena Cava to Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V48S	Bypass Superior Vena Cava to Right Pulmonary Vein with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V48T	Bypass Superior Vena Cava to Left Pulmonary Vein with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V48U	Bypass Superior Vena Cava to Pulmonary Vein Confluence with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V49P	Bypass Superior Vena Cava to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021V49Q	Bypass Superior Vena Cava to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V49R	Bypass Superior Vena Cava to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V49S	Bypass Superior Vena Cava to Right Pulmonary Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V49T	Bypass Superior Vena Cava to Left Pulmonary Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V49U	Bypass Superior Vena Cava to Pulmonary Vein Confluence with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4AP	Bypass Superior Vena Cava to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4AQ	Bypass Superior Vena Cava to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4AR	Bypass Superior Vena Cava to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4AS	Bypass Superior Vena Cava to Right Pulmonary Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4AT	Bypass Superior Vena Cava to Left Pulmonary Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4AU	Bypass Superior Vena Cava to Pulmonary Vein Confluence with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4JP	Bypass Superior Vena Cava to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4JQ	Bypass Superior Vena Cava to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4JR	Bypass Superior Vena Cava to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4JS	Bypass Superior Vena Cava to Right Pulmonary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4JT	Bypass Superior Vena Cava to Left Pulmonary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4JU	Bypass Superior Vena Cava to Pulmonary Vein Confluence with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4KP	Bypass Superior Vena Cava to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4KQ	Bypass Superior Vena Cava to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4KR	Bypass Superior Vena Cava to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4KS	Bypass Superior Vena Cava to Right Pulmonary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4KT	Bypass Superior Vena Cava to Left Pulmonary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021V4KU	Bypass Superior Vena Cava to Pulmonary Vein Confluence with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4ZP	Bypass Superior Vena Cava to Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4ZQ	Bypass Superior Vena Cava to Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4ZR	Bypass Superior Vena Cava to Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4ZS	Bypass Superior Vena Cava to Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4ZT	Bypass Superior Vena Cava to Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021V4ZU	Bypass Superior Vena Cava to Pulmonary Vein Confluence, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W08A	Bypass Thoracic Aorta, Descending to Innominate Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021W08B	Bypass Thoracic Aorta, Descending to Subclavian with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021W08D	Bypass Thoracic Aorta, Descending to Carotid with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021W08F	Bypass Thoracic Aorta, Descending to Abdominal Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021W08G	Bypass Thoracic Aorta, Descending to Axillary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021W08H	Bypass Thoracic Aorta, Descending to Brachial Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021W08P	Bypass Thoracic Aorta, Descending to Pulmonary Trunk with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021W08Q	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021W08R	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021W08V	Bypass Thoracic Aorta, Descending to Lower Extremity Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021W09A	Bypass Thoracic Aorta, Descending to Innominate Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021W09B	Bypass Thoracic Aorta, Descending to Subclavian with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021W09D	Bypass Thoracic Aorta, Descending to Carotid with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021W09F	Bypass Thoracic Aorta, Descending to Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021W09G	Bypass Thoracic Aorta, Descending to Axillary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021W09H	Bypass Thoracic Aorta, Descending to Brachial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021W09P	Bypass Thoracic Aorta, Descending to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021W09Q	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021W09R	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021W09V	Bypass Thoracic Aorta, Descending to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021W0AA	Bypass Thoracic Aorta, Descending to Innominate Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021W0AB	Bypass Thoracic Aorta, Descending to Subclavian with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021W0AD	Bypass Thoracic Aorta, Descending to Carotid with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021W0AF	Bypass Thoracic Aorta, Descending to Abdominal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021W0AG	Bypass Thoracic Aorta, Descending to Axillary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021W0AH	Bypass Thoracic Aorta, Descending to Brachial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021W0AP	Bypass Thoracic Aorta, Descending to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021W0AQ	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021W0AR	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021W0AV	Bypass Thoracic Aorta, Descending to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021W0JA	Bypass Thoracic Aorta, Descending to Innominate Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021W0JB	Bypass Thoracic Aorta, Descending to Subclavian with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021W0JD	Bypass Thoracic Aorta, Descending to Carotid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021W0JF	Bypass Thoracic Aorta, Descending to Abdominal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021W0JG	Bypass Thoracic Aorta, Descending to Axillary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021W0JH	Bypass Thoracic Aorta, Descending to Brachial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021W0JP	Bypass Thoracic Aorta, Descending to Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021W0JQ	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021W0JR	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021W0JV	Bypass Thoracic Aorta, Descending to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021W0KA	Bypass Thoracic Aorta, Descending to Innominate Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021W0KB	Bypass Thoracic Aorta, Descending to Subclavian with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021W0KD	Bypass Thoracic Aorta, Descending to Carotid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021W0KF	Bypass Thoracic Aorta, Descending to Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021W0KG	Bypass Thoracic Aorta, Descending to Axillary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021W0KH	Bypass Thoracic Aorta, Descending to Brachial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021W0KP	Bypass Thoracic Aorta, Descending to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021W0KQ	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021W0KR	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021W0KV	Bypass Thoracic Aorta, Descending to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021W0ZA	Bypass Thoracic Aorta, Descending to Innominate Artery, Open Approach	PX	ICD-10-PCS
021W0ZB	Bypass Thoracic Aorta, Descending to Subclavian, Open Approach	PX	ICD-10-PCS
021W0ZD	Bypass Thoracic Aorta, Descending to Carotid, Open Approach	PX	ICD-10-PCS
021W0ZP	Bypass Thoracic Aorta, Descending to Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
021W0ZQ	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
021W0ZR	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
021W48A	Bypass Thoracic Aorta, Descending to Innominate Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W48B	Bypass Thoracic Aorta, Descending to Subclavian with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W48D	Bypass Thoracic Aorta, Descending to Carotid with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W48P	Bypass Thoracic Aorta, Descending to Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W48Q	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W48R	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021W49A	Bypass Thoracic Aorta, Descending to Innominate Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W49B	Bypass Thoracic Aorta, Descending to Subclavian with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W49D	Bypass Thoracic Aorta, Descending to Carotid with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W49P	Bypass Thoracic Aorta, Descending to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W49Q	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W49R	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4AA	Bypass Thoracic Aorta, Descending to Innominate Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4AB	Bypass Thoracic Aorta, Descending to Subclavian with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4AD	Bypass Thoracic Aorta, Descending to Carotid with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4AP	Bypass Thoracic Aorta, Descending to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4AQ	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4AR	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4JA	Bypass Thoracic Aorta, Descending to Innominate Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4JB	Bypass Thoracic Aorta, Descending to Subclavian with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4JD	Bypass Thoracic Aorta, Descending to Carotid with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4JP	Bypass Thoracic Aorta, Descending to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4JQ	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4JR	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4KA	Bypass Thoracic Aorta, Descending to Innominate Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4KB	Bypass Thoracic Aorta, Descending to Subclavian with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4KD	Bypass Thoracic Aorta, Descending to Carotid with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4KP	Bypass Thoracic Aorta, Descending to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021W4KQ	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4KR	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4ZA	Bypass Thoracic Aorta, Descending to Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4ZB	Bypass Thoracic Aorta, Descending to Subclavian, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4ZD	Bypass Thoracic Aorta, Descending to Carotid, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4ZP	Bypass Thoracic Aorta, Descending to Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4ZQ	Bypass Thoracic Aorta, Descending to Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021W4ZR	Bypass Thoracic Aorta, Descending to Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X08A	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021X08B	Bypass Thoracic Aorta, Ascending/Arch to Subclavian with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021X08D	Bypass Thoracic Aorta, Ascending/Arch to Carotid with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021X08P	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021X08Q	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021X08R	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
021X09A	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021X09B	Bypass Thoracic Aorta, Ascending/Arch to Subclavian with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021X09D	Bypass Thoracic Aorta, Ascending/Arch to Carotid with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021X09P	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021X09Q	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021X09R	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
021X0AA	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021X0AB	Bypass Thoracic Aorta, Ascending/Arch to Subclavian with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021X0AD	Bypass Thoracic Aorta, Ascending/Arch to Carotid with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021X0AP	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021X0AQ	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021X0AR	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
021X0JA	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021X0JB	Bypass Thoracic Aorta, Ascending/Arch to Subclavian with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021X0JD	Bypass Thoracic Aorta, Ascending/Arch to Carotid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021X0JP	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021X0JQ	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021X0JR	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
021X0KA	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021X0KB	Bypass Thoracic Aorta, Ascending/Arch to Subclavian with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021X0KD	Bypass Thoracic Aorta, Ascending/Arch to Carotid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021X0KP	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021X0KQ	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021X0KR	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
021X0ZA	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery, Open Approach	PX	ICD-10-PCS
021X0ZB	Bypass Thoracic Aorta, Ascending/Arch to Subclavian, Open Approach	PX	ICD-10-PCS
021X0ZD	Bypass Thoracic Aorta, Ascending/Arch to Carotid, Open Approach	PX	ICD-10-PCS
021X0ZP	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
021X0ZQ	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
021X0ZR	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
021X48A	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X48B	Bypass Thoracic Aorta, Ascending/Arch to Subclavian with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021X48D	Bypass Thoracic Aorta, Ascending/Arch to Carotid with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X48P	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X48Q	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X48R	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X49A	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X49B	Bypass Thoracic Aorta, Ascending/Arch to Subclavian with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X49D	Bypass Thoracic Aorta, Ascending/Arch to Carotid with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X49P	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X49Q	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X49R	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4AA	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4AB	Bypass Thoracic Aorta, Ascending/Arch to Subclavian with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4AD	Bypass Thoracic Aorta, Ascending/Arch to Carotid with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4AP	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4AQ	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4AR	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4JA	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4JB	Bypass Thoracic Aorta, Ascending/Arch to Subclavian with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4JD	Bypass Thoracic Aorta, Ascending/Arch to Carotid with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4JP	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4JQ	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4JR	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021X4KA	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4KB	Bypass Thoracic Aorta, Ascending/Arch to Subclavian with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4KD	Bypass Thoracic Aorta, Ascending/Arch to Carotid with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4KP	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4KQ	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4KR	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4ZA	Bypass Thoracic Aorta, Ascending/Arch to Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4ZB	Bypass Thoracic Aorta, Ascending/Arch to Subclavian, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4ZD	Bypass Thoracic Aorta, Ascending/Arch to Carotid, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4ZP	Bypass Thoracic Aorta, Ascending/Arch to Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4ZQ	Bypass Thoracic Aorta, Ascending/Arch to Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
021X4ZR	Bypass Thoracic Aorta, Ascending/Arch to Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
024F07J	Creation of Aortic Valve from Truncal Valve using Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
024F08J	Creation of Aortic Valve from Truncal Valve using Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
024F0JJ	Creation of Aortic Valve from Truncal Valve using Synthetic Substitute, Open Approach	PX	ICD-10-PCS
024F0KJ	Creation of Aortic Valve from Truncal Valve using Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
024G072	Creation of Mitral Valve from Common Atrioventricular Valve using Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
024G082	Creation of Mitral Valve from Common Atrioventricular Valve using Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
024G0J2	Creation of Mitral Valve from Common Atrioventricular Valve using Synthetic Substitute, Open Approach	PX	ICD-10-PCS
024G0K2	Creation of Mitral Valve from Common Atrioventricular Valve using Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
024J072	Creation of Tricuspid Valve from Common Atrioventricular Valve using Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
024J082	Creation of Tricuspid Valve from Common Atrioventricular Valve using Zooplastic Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
024J0J2	Creation of Tricuspid Valve from Common Atrioventricular Valve using Synthetic Substitute, Open Approach	PX	ICD-10-PCS
024J0K2	Creation of Tricuspid Valve from Common Atrioventricular Valve using Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02540ZZ	Destruction of Coronary Vein, Open Approach	PX	ICD-10-PCS
02543ZZ	Destruction of Coronary Vein, Percutaneous Approach	PX	ICD-10-PCS
02544ZZ	Destruction of Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02550ZZ	Destruction of Atrial Septum, Open Approach	PX	ICD-10-PCS
02553ZZ	Destruction of Atrial Septum, Percutaneous Approach	PX	ICD-10-PCS
02554ZZ	Destruction of Atrial Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02560ZZ	Destruction of Right Atrium, Open Approach	PX	ICD-10-PCS
02563ZZ	Destruction of Right Atrium, Percutaneous Approach	PX	ICD-10-PCS
02564ZZ	Destruction of Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02570ZK	Destruction of Left Atrial Appendage, Open Approach	PX	ICD-10-PCS
02570ZZ	Destruction of Left Atrium, Open Approach	PX	ICD-10-PCS
02573ZZ	Destruction of Left Atrium, Percutaneous Approach	PX	ICD-10-PCS
02574ZK	Destruction of Left Atrial Appendage, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02574ZZ	Destruction of Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02580ZZ	Destruction of Conduction Mechanism, Open Approach	PX	ICD-10-PCS
02583ZF	Destruction of conduction mechanism using irreversible electroporation, percutaneous approach	PX	ICD-10-PCS
02583ZZ	Destruction of Conduction Mechanism, Percutaneous Approach	PX	ICD-10-PCS
02584ZZ	Destruction of Conduction Mechanism, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02590ZZ	Destruction of Chordae Tendineae, Open Approach	PX	ICD-10-PCS
02593ZZ	Destruction of Chordae Tendineae, Percutaneous Approach	PX	ICD-10-PCS
02594ZZ	Destruction of Chordae Tendineae, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025D0ZZ	Destruction of Papillary Muscle, Open Approach	PX	ICD-10-PCS
025D3ZZ	Destruction of Papillary Muscle, Percutaneous Approach	PX	ICD-10-PCS
025D4ZZ	Destruction of Papillary Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025F0ZZ	Destruction of Aortic Valve, Open Approach	PX	ICD-10-PCS
025F3ZZ	Destruction of Aortic Valve, Percutaneous Approach	PX	ICD-10-PCS
025F4ZZ	Destruction of Aortic Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025G0ZZ	Destruction of Mitral Valve, Open Approach	PX	ICD-10-PCS
025G3ZZ	Destruction of Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
025G4ZZ	Destruction of Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025H0ZZ	Destruction of Pulmonary Valve, Open Approach	PX	ICD-10-PCS
025H3ZZ	Destruction of Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
025H4ZZ	Destruction of Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025J0ZZ	Destruction of Tricuspid Valve, Open Approach	PX	ICD-10-PCS
025J3ZZ	Destruction of Tricuspid Valve, Percutaneous Approach	PX	ICD-10-PCS
025J4ZZ	Destruction of Tricuspid Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025K0ZZ	Destruction of Right Ventricle, Open Approach	PX	ICD-10-PCS
025K3ZZ	Destruction of Right Ventricle, Percutaneous Approach	PX	ICD-10-PCS
025K4ZZ	Destruction of Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025L0ZZ	Destruction of Left Ventricle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
025L3ZZ	Destruction of Left Ventricle, Percutaneous Approach	PX	ICD-10-PCS
025L4ZZ	Destruction of Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025M0ZZ	Destruction of Ventricular Septum, Open Approach	PX	ICD-10-PCS
025M3ZZ	Destruction of Ventricular Septum, Percutaneous Approach	PX	ICD-10-PCS
025M4ZZ	Destruction of Ventricular Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025N0ZZ	Destruction of Pericardium, Open Approach	PX	ICD-10-PCS
025N3ZZ	Destruction of Pericardium, Percutaneous Approach	PX	ICD-10-PCS
025N4ZZ	Destruction of Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025P0ZZ	Destruction of Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
025P3ZZ	Destruction of Pulmonary Trunk, Percutaneous Approach	PX	ICD-10-PCS
025P4ZZ	Destruction of Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025Q0ZZ	Destruction of Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
025Q3ZZ	Destruction of Right Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
025Q4ZZ	Destruction of Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025R0ZZ	Destruction of Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
025R3ZZ	Destruction of Left Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
025R4ZZ	Destruction of Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025S0ZZ	Destruction of Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
025S3ZZ	Destruction of Right Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
025S4ZZ	Destruction of Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025T0ZZ	Destruction of Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
025T3ZZ	Destruction of Left Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
025T4ZZ	Destruction of Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025V0ZZ	Destruction of Superior Vena Cava, Open Approach	PX	ICD-10-PCS
025V3ZZ	Destruction of Superior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
025V4ZZ	Destruction of Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025W0ZZ	Destruction of Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
025W3ZZ	Destruction of Thoracic Aorta, Descending, Percutaneous Approach	PX	ICD-10-PCS
025W4ZZ	Destruction of Thoracic Aorta, Descending, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
025X0ZZ	Destruction of Thoracic Aorta, Ascending/Arch, Open Approach	PX	ICD-10-PCS
025X3ZZ	Destruction of Thoracic Aorta, Ascending/Arch, Percutaneous Approach	PX	ICD-10-PCS
025X4ZZ	Destruction of Thoracic Aorta, Ascending/Arch, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0270046	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027004Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0270056	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027005Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0270066	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027006Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0270076	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027007Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02700D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02700DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02700E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02700EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02700F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02700FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02700G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02700GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02700T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
02700TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
02700Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
02700ZZ	Dilation of Coronary Artery, One Artery, Open Approach	PX	ICD-10-PCS
0270346	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027034Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0270356	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027035Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0270366	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027036Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0270376	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027037Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02703D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02703DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02703E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02703EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02703F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02703FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02703G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02703GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02703T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02703TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02703Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
02703ZZ	Dilation of Coronary Artery, One Artery, Percutaneous Approach	PX	ICD-10-PCS
0270446	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027044Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0270456	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027045Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0270466	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027046Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0270476	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027047Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02704F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02704ZZ	Dilation of Coronary Artery, One Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0271046	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027104Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0271056	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027105Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0271066	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027106Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0271076	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027107Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02710D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02710DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02710E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02710EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02710F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02710FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02710G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02710GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02710T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
02710TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
02710Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Open Approach	PX	ICD-10-PCS
02710ZZ	Dilation of Coronary Artery, Two Arteries, Open Approach	PX	ICD-10-PCS
0271346	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027134Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0271356	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027135Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0271366	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027136Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0271376	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027137Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02713D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02713DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02713E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02713EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02713F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02713FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02713G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02713GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02713T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02713TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02713Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02713ZZ	Dilation of Coronary Artery, Two Arteries, Percutaneous Approach	PX	ICD-10-PCS
0271446	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027144Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0271456	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027145Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0271466	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027146Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0271476	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027147Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02714ZZ	Dilation of Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0272046	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027204Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0272056	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027205Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0272066	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027206Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0272076	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027207Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02720D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02720DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02720E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02720EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02720F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02720FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02720G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02720GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02720T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
02720TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
02720Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Open Approach	PX	ICD-10-PCS
02720ZZ	Dilation of Coronary Artery, Three Arteries, Open Approach	PX	ICD-10-PCS
0272346	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027234Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0272356	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027235Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0272366	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
027236Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0272376	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027237Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02723D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02723DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02723E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02723EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02723F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02723FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02723G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02723GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02723T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02723TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02723Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
02723ZZ	Dilation of Coronary Artery, Three Arteries, Percutaneous Approach	PX	ICD-10-PCS
0272446	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027244Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0272456	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027245Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0272466	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027246Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0272476	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027247Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02724D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02724ZZ	Dilation of Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0273046	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027304Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0273056	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027305Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0273066	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027306Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0273076	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
027307Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02730D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02730DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02730E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02730EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02730F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02730FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02730G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02730GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
02730T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
02730TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
02730Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Open Approach	PX	ICD-10-PCS
02730ZZ	Dilation of Coronary Artery, Four or More Arteries, Open Approach	PX	ICD-10-PCS
0273346	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027334Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0273356	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027335Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0273366	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027336Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0273376	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
027337Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02733D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02733DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02733E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02733EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02733F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02733FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02733G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02733GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
02733T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02733TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02733Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
02733ZZ	Dilation of Coronary Artery, Four or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
0273446	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027344Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0273456	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027345Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0273466	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027346Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0273476	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027347Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02734TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02734ZZ	Dilation of Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027F04Z	Dilation of Aortic Valve with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027F0DZ	Dilation of Aortic Valve with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027F0ZZ	Dilation of Aortic Valve, Open Approach	PX	ICD-10-PCS
027F34Z	Dilation of Aortic Valve with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027F3DZ	Dilation of Aortic Valve with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027F3ZZ	Dilation of Aortic Valve, Percutaneous Approach	PX	ICD-10-PCS
027F44Z	Dilation of Aortic Valve with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027F4DZ	Dilation of Aortic Valve with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027F4ZZ	Dilation of Aortic Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027G04Z	Dilation of Mitral Valve with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027G0DZ	Dilation of Mitral Valve with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027G0ZZ	Dilation of Mitral Valve, Open Approach	PX	ICD-10-PCS
027G34Z	Dilation of Mitral Valve with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027G3DZ	Dilation of Mitral Valve with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027G3ZZ	Dilation of Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
027G44Z	Dilation of Mitral Valve with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027G4DZ	Dilation of Mitral Valve with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027G4ZZ	Dilation of Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027H04Z	Dilation of Pulmonary Valve with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027H0DZ	Dilation of Pulmonary Valve with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027H0ZZ	Dilation of Pulmonary Valve, Open Approach	PX	ICD-10-PCS
027H34Z	Dilation of Pulmonary Valve with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027H3DZ	Dilation of Pulmonary Valve with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027H3ZZ	Dilation of Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
027H44Z	Dilation of Pulmonary Valve with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027H4DZ	Dilation of Pulmonary Valve with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027H4ZZ	Dilation of Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027J04Z	Dilation of Tricuspid Valve with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
027J0DZ	Dilation of Tricuspid Valve with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027J0ZZ	Dilation of Tricuspid Valve, Open Approach	PX	ICD-10-PCS
027J34Z	Dilation of Tricuspid Valve with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027J3DZ	Dilation of Tricuspid Valve with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027J3ZZ	Dilation of Tricuspid Valve, Percutaneous Approach	PX	ICD-10-PCS
027J44Z	Dilation of Tricuspid Valve with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027J4DZ	Dilation of Tricuspid Valve with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027J4ZZ	Dilation of Tricuspid Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027K04Z	Dilation of Right Ventricle with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027K0DZ	Dilation of Right Ventricle with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027K0ZZ	Dilation of Right Ventricle, Open Approach	PX	ICD-10-PCS
027K34Z	Dilation of Right Ventricle with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027K3DZ	Dilation of Right Ventricle with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027K3ZZ	Dilation of Right Ventricle, Percutaneous Approach	PX	ICD-10-PCS
027K44Z	Dilation of Right Ventricle with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027K4DZ	Dilation of Right Ventricle with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027K4ZZ	Dilation of Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027L04Z	Dilation of Left Ventricle with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027L0DZ	Dilation of Left Ventricle with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027L0ZZ	Dilation of Left Ventricle, Open Approach	PX	ICD-10-PCS
027L34Z	Dilation of Left Ventricle with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027L3DZ	Dilation of Left Ventricle with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027L3ZZ	Dilation of Left Ventricle, Percutaneous Approach	PX	ICD-10-PCS
027L44Z	Dilation of Left Ventricle with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027L4DZ	Dilation of Left Ventricle with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027L4ZZ	Dilation of Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027P04Z	Dilation of Pulmonary Trunk with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027P0DZ	Dilation of Pulmonary Trunk with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027P0ZZ	Dilation of Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
027P34Z	Dilation of Pulmonary Trunk with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027P3DZ	Dilation of Pulmonary Trunk with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027P3ZZ	Dilation of Pulmonary Trunk, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
027P44Z	Dilation of Pulmonary Trunk with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027P4DZ	Dilation of Pulmonary Trunk with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027P4ZZ	Dilation of Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027Q04Z	Dilation of Right Pulmonary Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027Q0DZ	Dilation of Right Pulmonary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027Q0ZZ	Dilation of Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
027Q34Z	Dilation of Right Pulmonary Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027Q3DZ	Dilation of Right Pulmonary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027Q3ZZ	Dilation of Right Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
027Q44Z	Dilation of Right Pulmonary Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027Q4DZ	Dilation of Right Pulmonary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027Q4ZZ	Dilation of Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027R04T	Dilation of Ductus Arteriosus with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027R04Z	Dilation of Left Pulmonary Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027R0DT	Dilation of Ductus Arteriosus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027R0DZ	Dilation of Left Pulmonary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027R0ZT	Dilation of Ductus Arteriosus, Open Approach	PX	ICD-10-PCS
027R0ZZ	Dilation of Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
027R34T	Dilation of Ductus Arteriosus with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027R34Z	Dilation of Left Pulmonary Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027R3DT	Dilation of Ductus Arteriosus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027R3DZ	Dilation of Left Pulmonary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027R3ZT	Dilation of Ductus Arteriosus, Percutaneous Approach	PX	ICD-10-PCS
027R3ZZ	Dilation of Left Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
027R44T	Dilation of Ductus Arteriosus with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027R44Z	Dilation of Left Pulmonary Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027R4DT	Dilation of Ductus Arteriosus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027R4DZ	Dilation of Left Pulmonary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027R4ZT	Dilation of Ductus Arteriosus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
027R4ZZ	Dilation of Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027S04Z	Dilation of Right Pulmonary Vein with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027S0DZ	Dilation of Right Pulmonary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027S0ZZ	Dilation of Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
027S34Z	Dilation of Right Pulmonary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027S3DZ	Dilation of Right Pulmonary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027S3ZZ	Dilation of Right Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
027S44Z	Dilation of Right Pulmonary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027S4DZ	Dilation of Right Pulmonary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027S4ZZ	Dilation of Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027T04Z	Dilation of Left Pulmonary Vein with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027T0DZ	Dilation of Left Pulmonary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027T0ZZ	Dilation of Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
027T34Z	Dilation of Left Pulmonary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027T3DZ	Dilation of Left Pulmonary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027T3ZZ	Dilation of Left Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
027T44Z	Dilation of Left Pulmonary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027T4DZ	Dilation of Left Pulmonary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027T4ZZ	Dilation of Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027V04Z	Dilation of Superior Vena Cava with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027V0DZ	Dilation of Superior Vena Cava with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027V0ZZ	Dilation of Superior Vena Cava, Open Approach	PX	ICD-10-PCS
027V34Z	Dilation of Superior Vena Cava with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027V3DZ	Dilation of Superior Vena Cava with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027V3ZZ	Dilation of Superior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
027V44Z	Dilation of Superior Vena Cava with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027V4DZ	Dilation of Superior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027V4ZZ	Dilation of Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027W04Z	Dilation of Thoracic Aorta, Descending with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
027W0DZ	Dilation of Thoracic Aorta, Descending with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027W0ZZ	Dilation of Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
027W34Z	Dilation of Thoracic Aorta, Descending with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027W3DZ	Dilation of Thoracic Aorta, Descending with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027W3ZZ	Dilation of Thoracic Aorta, Descending, Percutaneous Approach	PX	ICD-10-PCS
027W44Z	Dilation of Thoracic Aorta, Descending with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027W4DZ	Dilation of Thoracic Aorta, Descending with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027W4ZZ	Dilation of Thoracic Aorta, Descending, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027X04Z	Dilation of Thoracic Aorta, Ascending/Arch with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027X0DZ	Dilation of Thoracic Aorta, Ascending/Arch with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027X0ZZ	Dilation of Thoracic Aorta, Ascending/Arch, Open Approach	PX	ICD-10-PCS
027X34Z	Dilation of Thoracic Aorta, Ascending/Arch with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027X3DZ	Dilation of Thoracic Aorta, Ascending/Arch with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
027X3ZZ	Dilation of Thoracic Aorta, Ascending/Arch, Percutaneous Approach	PX	ICD-10-PCS
027X44Z	Dilation of Thoracic Aorta, Ascending/Arch with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027X4DZ	Dilation of Thoracic Aorta, Ascending/Arch with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
027X4ZZ	Dilation of Thoracic Aorta, Ascending/Arch, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02880ZZ	Division of Conduction Mechanism, Open Approach	PX	ICD-10-PCS
02883ZZ	Division of Conduction Mechanism, Percutaneous Approach	PX	ICD-10-PCS
02884ZZ	Division of Conduction Mechanism, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02890ZZ	Division of Chordae Tendineae, Open Approach	PX	ICD-10-PCS
02893ZZ	Division of Chordae Tendineae, Percutaneous Approach	PX	ICD-10-PCS
02894ZZ	Division of Chordae Tendineae, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
028D0ZZ	Division of Papillary Muscle, Open Approach	PX	ICD-10-PCS
028D3ZZ	Division of Papillary Muscle, Percutaneous Approach	PX	ICD-10-PCS
028D4ZZ	Division of Papillary Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02B40ZZ	Excision of Coronary Vein, Open Approach	PX	ICD-10-PCS
02B43ZZ	Excision of Coronary Vein, Percutaneous Approach	PX	ICD-10-PCS
02B44ZZ	Excision of Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02B50ZZ	Excision of Atrial Septum, Open Approach	PX	ICD-10-PCS
02B53ZZ	Excision of Atrial Septum, Percutaneous Approach	PX	ICD-10-PCS
02B54ZZ	Excision of Atrial Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02B60ZZ	Excision of Right Atrium, Open Approach	PX	ICD-10-PCS
02B63ZZ	Excision of Right Atrium, Percutaneous Approach	PX	ICD-10-PCS
02B64ZZ	Excision of Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02B70ZK	Excision of Left Atrial Appendage, Open Approach	PX	ICD-10-PCS
02B70ZZ	Excision of Left Atrium, Open Approach	PX	ICD-10-PCS
02B73ZZ	Excision of Left Atrium, Percutaneous Approach	PX	ICD-10-PCS
02B74ZK	Excision of Left Atrial Appendage, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02B74ZZ	Excision of Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02B80ZZ	Excision of Conduction Mechanism, Open Approach	PX	ICD-10-PCS
02B83ZZ	Excision of Conduction Mechanism, Percutaneous Approach	PX	ICD-10-PCS
02B84ZZ	Excision of Conduction Mechanism, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02B90ZZ	Excision of Chordae Tendineae, Open Approach	PX	ICD-10-PCS
02B93ZZ	Excision of Chordae Tendineae, Percutaneous Approach	PX	ICD-10-PCS
02B94ZZ	Excision of Chordae Tendineae, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BD0ZZ	Excision of Papillary Muscle, Open Approach	PX	ICD-10-PCS
02BD3ZZ	Excision of Papillary Muscle, Percutaneous Approach	PX	ICD-10-PCS
02BD4ZZ	Excision of Papillary Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BF0ZZ	Excision of Aortic Valve, Open Approach	PX	ICD-10-PCS
02BF3ZZ	Excision of Aortic Valve, Percutaneous Approach	PX	ICD-10-PCS
02BF4ZZ	Excision of Aortic Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BG0ZZ	Excision of Mitral Valve, Open Approach	PX	ICD-10-PCS
02BG3ZZ	Excision of Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
02BG4ZZ	Excision of Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BH0ZZ	Excision of Pulmonary Valve, Open Approach	PX	ICD-10-PCS
02BH3ZZ	Excision of Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
02BH4ZZ	Excision of Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BJ0ZZ	Excision of Tricuspid Valve, Open Approach	PX	ICD-10-PCS
02BJ3ZZ	Excision of Tricuspid Valve, Percutaneous Approach	PX	ICD-10-PCS
02BJ4ZZ	Excision of Tricuspid Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BK0ZZ	Excision of Right Ventricle, Open Approach	PX	ICD-10-PCS
02BK3ZZ	Excision of Right Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02BK4ZZ	Excision of Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BL0ZZ	Excision of Left Ventricle, Open Approach	PX	ICD-10-PCS
02BL3ZZ	Excision of Left Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02BL4ZZ	Excision of Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BM0ZZ	Excision of Ventricular Septum, Open Approach	PX	ICD-10-PCS
02BM3ZZ	Excision of Ventricular Septum, Percutaneous Approach	PX	ICD-10-PCS
02BM4ZZ	Excision of Ventricular Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BN0ZZ	Excision of Pericardium, Open Approach	PX	ICD-10-PCS
02BN3ZZ	Excision of Pericardium, Percutaneous Approach	PX	ICD-10-PCS
02BN4ZZ	Excision of Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BP0ZZ	Excision of Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
02BP3ZZ	Excision of Pulmonary Trunk, Percutaneous Approach	PX	ICD-10-PCS
02BP4ZZ	Excision of Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BQ0ZZ	Excision of Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02BQ3ZZ	Excision of Right Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02BQ4ZZ	Excision of Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BR0ZZ	Excision of Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02BR3ZZ	Excision of Left Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02BR4ZZ	Excision of Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BS0ZZ	Excision of Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02BS3ZZ	Excision of Right Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02BS4ZZ	Excision of Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BT0ZZ	Excision of Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02BT3ZZ	Excision of Left Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02BT4ZZ	Excision of Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BV0ZZ	Excision of Superior Vena Cava, Open Approach	PX	ICD-10-PCS
02BV3ZZ	Excision of Superior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
02BV4ZZ	Excision of Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BW0ZZ	Excision of Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
02BW3ZZ	Excision of Thoracic Aorta, Descending, Percutaneous Approach	PX	ICD-10-PCS
02BW4ZZ	Excision of Thoracic Aorta, Descending, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02BX0ZZ	Excision of Thoracic Aorta, Ascending/Arch, Open Approach	PX	ICD-10-PCS
02BX3ZZ	Excision of Thoracic Aorta, Ascending/Arch, Percutaneous Approach	PX	ICD-10-PCS
02BX4ZZ	Excision of Thoracic Aorta, Ascending/Arch, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C00Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
02C00ZZ	Extirpation of Matter from Coronary Artery, One Artery, Open Approach	PX	ICD-10-PCS
02C03Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
02C03Z7	Extirpation of Matter from Coronary Artery, One Artery, Orbital Atherectomy Technique, Percutaneous Approach	PX	ICD-10-PCS
02C03ZZ	Extirpation of Matter from Coronary Artery, One Artery, Percutaneous Approach	PX	ICD-10-PCS
02C04Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C04ZZ	Extirpation of Matter from Coronary Artery, One Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C10Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Open Approach	PX	ICD-10-PCS
02C10ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Open Approach	PX	ICD-10-PCS
02C13Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
02C13Z7	Extirpation of Matter from Coronary Artery, Two Arteries, Orbital Atherectomy Technique, Percutaneous Approach	PX	ICD-10-PCS
02C13ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Percutaneous Approach	PX	ICD-10-PCS
02C14Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C14ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C20Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02C20ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Open Approach	PX	ICD-10-PCS
02C23Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
02C23Z7	Extirpation of Matter from Coronary Artery, Three Arteries, Orbital Atherectomy Technique, Percutaneous Approach	PX	ICD-10-PCS
02C23ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Percutaneous Approach	PX	ICD-10-PCS
02C24Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C24ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C30Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Open Approach	PX	ICD-10-PCS
02C30ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Open Approach	PX	ICD-10-PCS
02C33Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
02C33Z7	Extirpation of Matter from Coronary Artery, Four or More Arteries, Orbital Atherectomy Technique, Percutaneous Approach	PX	ICD-10-PCS
02C33ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
02C34Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C34ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C40ZZ	Extirpation of Matter from Coronary Vein, Open Approach	PX	ICD-10-PCS
02C43ZZ	Extirpation of Matter from Coronary Vein, Percutaneous Approach	PX	ICD-10-PCS
02C44ZZ	Extirpation of Matter from Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C50ZZ	Extirpation of Matter from Atrial Septum, Open Approach	PX	ICD-10-PCS
02C53ZZ	Extirpation of Matter from Atrial Septum, Percutaneous Approach	PX	ICD-10-PCS
02C54ZZ	Extirpation of Matter from Atrial Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C60ZZ	Extirpation of Matter from Right Atrium, Open Approach	PX	ICD-10-PCS
02C63ZZ	Extirpation of Matter from Right Atrium, Percutaneous Approach	PX	ICD-10-PCS
02C64ZZ	Extirpation of Matter from Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C70ZZ	Extirpation of Matter from Left Atrium, Open Approach	PX	ICD-10-PCS
02C73ZZ	Extirpation of Matter from Left Atrium, Percutaneous Approach	PX	ICD-10-PCS
02C74ZZ	Extirpation of Matter from Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C80ZZ	Extirpation of Matter from Conduction Mechanism, Open Approach	PX	ICD-10-PCS
02C83ZZ	Extirpation of Matter from Conduction Mechanism, Percutaneous Approach	PX	ICD-10-PCS
02C84ZZ	Extirpation of Matter from Conduction Mechanism, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02C90ZZ	Extirpation of Matter from Chordae Tendineae, Open Approach	PX	ICD-10-PCS
02C93ZZ	Extirpation of Matter from Chordae Tendineae, Percutaneous Approach	PX	ICD-10-PCS
02C94ZZ	Extirpation of Matter from Chordae Tendineae, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02CD0ZZ	Extirpation of Matter from Papillary Muscle, Open Approach	PX	ICD-10-PCS
02CD3ZZ	Extirpation of Matter from Papillary Muscle, Percutaneous Approach	PX	ICD-10-PCS
02CD4ZZ	Extirpation of Matter from Papillary Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CF0ZZ	Extirpation of Matter from Aortic Valve, Open Approach	PX	ICD-10-PCS
02CF3ZZ	Extirpation of Matter from Aortic Valve, Percutaneous Approach	PX	ICD-10-PCS
02CF4ZZ	Extirpation of Matter from Aortic Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CG0ZZ	Extirpation of Matter from Mitral Valve, Open Approach	PX	ICD-10-PCS
02CG3ZZ	Extirpation of Matter from Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
02CG4ZZ	Extirpation of Matter from Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CH0ZZ	Extirpation of Matter from Pulmonary Valve, Open Approach	PX	ICD-10-PCS
02CH3ZZ	Extirpation of Matter from Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
02CH4ZZ	Extirpation of Matter from Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CJ0ZZ	Extirpation of Matter from Tricuspid Valve, Open Approach	PX	ICD-10-PCS
02CJ3ZZ	Extirpation of Matter from Tricuspid Valve, Percutaneous Approach	PX	ICD-10-PCS
02CJ4ZZ	Extirpation of Matter from Tricuspid Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CK0ZZ	Extirpation of Matter from Right Ventricle, Open Approach	PX	ICD-10-PCS
02CK3ZZ	Extirpation of Matter from Right Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02CK4ZZ	Extirpation of Matter from Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CL0ZZ	Extirpation of Matter from Left Ventricle, Open Approach	PX	ICD-10-PCS
02CL3ZZ	Extirpation of Matter from Left Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02CL4ZZ	Extirpation of Matter from Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CM0ZZ	Extirpation of Matter from Ventricular Septum, Open Approach	PX	ICD-10-PCS
02CM3ZZ	Extirpation of Matter from Ventricular Septum, Percutaneous Approach	PX	ICD-10-PCS
02CM4ZZ	Extirpation of Matter from Ventricular Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CN0ZZ	Extirpation of Matter from Pericardium, Open Approach	PX	ICD-10-PCS
02CN3ZZ	Extirpation of Matter from Pericardium, Percutaneous Approach	PX	ICD-10-PCS
02CN4ZZ	Extirpation of Matter from Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CP0ZZ	Extirpation of Matter from Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
02CP3ZZ	Extirpation of Matter from Pulmonary Trunk, Percutaneous Approach	PX	ICD-10-PCS
02CP4ZZ	Extirpation of Matter from Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CQ0ZZ	Extirpation of Matter from Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02CQ3ZZ	Extirpation of Matter from Right Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02CQ4ZZ	Extirpation of Matter from Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CR0ZZ	Extirpation of Matter from Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02CR3ZZ	Extirpation of Matter from Left Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02CR4ZZ	Extirpation of Matter from Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CS0ZZ	Extirpation of Matter from Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02CS3ZZ	Extirpation of Matter from Right Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02CS4ZZ	Extirpation of Matter from Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CT0ZZ	Extirpation of Matter from Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02CT3ZZ	Extirpation of Matter from Left Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02CT4ZZ	Extirpation of Matter from Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CV0ZZ	Extirpation of Matter from Superior Vena Cava, Open Approach	PX	ICD-10-PCS
02CV3ZZ	Extirpation of Matter from Superior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
02CV4ZZ	Extirpation of Matter from Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CW0ZZ	Extirpation of Matter from Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
02CW3ZZ	Extirpation of Matter from Thoracic Aorta, Descending, Percutaneous Approach	PX	ICD-10-PCS
02CW4ZZ	Extirpation of Matter from Thoracic Aorta, Descending, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02CX0ZZ	Extirpation of Matter from Thoracic Aorta, Ascending/Arch, Open Approach	PX	ICD-10-PCS
02CX3ZZ	Extirpation of Matter from Thoracic Aorta, Ascending/Arch, Percutaneous Approach	PX	ICD-10-PCS
02CX4ZZ	Extirpation of Matter from Thoracic Aorta, Ascending/Arch, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02F03ZZ	Fragmentation in Coronary Artery, One Artery, Percutaneous Approach	PX	ICD-10-PCS
02F13ZZ	Fragmentation in Coronary Artery, Two Arteries, Percutaneous Approach	PX	ICD-10-PCS
02F23ZZ	Fragmentation in Coronary Artery, Three Arteries, Percutaneous Approach	PX	ICD-10-PCS
02F33ZZ	Fragmentation in Coronary Artery, Four or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
02FN0ZZ	Fragmentation in Pericardium, Open Approach	PX	ICD-10-PCS
02FN3ZZ	Fragmentation in Pericardium, Percutaneous Approach	PX	ICD-10-PCS
02FN4ZZ	Fragmentation in Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H00DZ	Insertion of Intraluminal Device into Coronary Artery, One Artery, Open Approach	PX	ICD-10-PCS
02H00YZ	Insertion of Other Device into Coronary Artery, One Artery, Open Approach	PX	ICD-10-PCS
02H03DZ	Insertion of Intraluminal Device into Coronary Artery, One Artery, Percutaneous Approach	PX	ICD-10-PCS
02H03YZ	Insertion of Other Device into Coronary Artery, One Artery, Percutaneous Approach	PX	ICD-10-PCS
02H04DZ	Insertion of Intraluminal Device into Coronary Artery, One Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H04YZ	Insertion of Other Device into Coronary Artery, One Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H10DZ	Insertion of Intraluminal Device into Coronary Artery, Two Arteries, Open Approach	PX	ICD-10-PCS
02H10YZ	Insertion of Other Device into Coronary Artery, Two Arteries, Open Approach	PX	ICD-10-PCS
02H13DZ	Insertion of Intraluminal Device into Coronary Artery, Two Arteries, Percutaneous Approach	PX	ICD-10-PCS
02H13YZ	Insertion of Other Device into Coronary Artery, Two Arteries, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02H14DZ	Insertion of Intraluminal Device into Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H14YZ	Insertion of Other Device into Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H20DZ	Insertion of Intraluminal Device into Coronary Artery, Three Arteries, Open Approach	PX	ICD-10-PCS
02H20YZ	Insertion of Other Device into Coronary Artery, Three Arteries, Open Approach	PX	ICD-10-PCS
02H23DZ	Insertion of Intraluminal Device into Coronary Artery, Three Arteries, Percutaneous Approach	PX	ICD-10-PCS
02H23YZ	Insertion of Other Device into Coronary Artery, Three Arteries, Percutaneous Approach	PX	ICD-10-PCS
02H24DZ	Insertion of Intraluminal Device into Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H24YZ	Insertion of Other Device into Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H30DZ	Insertion of Intraluminal Device into Coronary Artery, Four or More Arteries, Open Approach	PX	ICD-10-PCS
02H30YZ	Insertion of Other Device into Coronary Artery, Four or More Arteries, Open Approach	PX	ICD-10-PCS
02H33DZ	Insertion of Intraluminal Device into Coronary Artery, Four or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
02H33YZ	Insertion of Other Device into Coronary Artery, Four or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
02H34DZ	Insertion of Intraluminal Device into Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H34YZ	Insertion of Other Device into Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H403Z	Insertion of Infusion Device into Coronary Vein, Open Approach	PX	ICD-10-PCS
02H40DZ	Insertion of Intraluminal Device into Coronary Vein, Open Approach	PX	ICD-10-PCS
02H40JZ	Insertion of Pacemaker Lead into Coronary Vein, Open Approach	PX	ICD-10-PCS
02H40KZ	Insertion of Defibrillator Lead into Coronary Vein, Open Approach	PX	ICD-10-PCS
02H40MZ	Insertion of Cardiac Lead into Coronary Vein, Open Approach	PX	ICD-10-PCS
02H40NZ	Insertion of Intracardiac Pacemaker into Coronary Vein, Open Approach	PX	ICD-10-PCS
02H40YZ	Insertion of Other Device into Coronary Vein, Open Approach	PX	ICD-10-PCS
02H43KZ	Insertion of Defibrillator Lead into Coronary Vein, Percutaneous Approach	PX	ICD-10-PCS
02H43NZ	Insertion of Intracardiac Pacemaker into Coronary Vein, Percutaneous Approach	PX	ICD-10-PCS
02H43YZ	Insertion of Other Device into Coronary Vein, Percutaneous Approach	PX	ICD-10-PCS
02H443Z	Insertion of Infusion Device into Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H44DZ	Insertion of Intraluminal Device into Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H44JZ	Insertion of Pacemaker Lead into Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H44KZ	Insertion of Defibrillator Lead into Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02H44MZ	Insertion of Cardiac Lead into Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H44NZ	Insertion of Intracardiac Pacemaker into Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H44YZ	Insertion of Other Device into Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H603Z	Insertion of Infusion Device into Right Atrium, Open Approach	PX	ICD-10-PCS
02H60DZ	Insertion of Intraluminal Device into Right Atrium, Open Approach	PX	ICD-10-PCS
02H60JZ	Insertion of Pacemaker Lead into Right Atrium, Open Approach	PX	ICD-10-PCS
02H60KZ	Insertion of Defibrillator Lead into Right Atrium, Open Approach	PX	ICD-10-PCS
02H60MZ	Insertion of Cardiac Lead into Right Atrium, Open Approach	PX	ICD-10-PCS
02H60NZ	Insertion of Intracardiac Pacemaker into Right Atrium, Open Approach	PX	ICD-10-PCS
02H60YZ	Insertion of Other Device into Right Atrium, Open Approach	PX	ICD-10-PCS
02H63KZ	Insertion of Defibrillator Lead into Right Atrium, Percutaneous Approach	PX	ICD-10-PCS
02H63NZ	Insertion of Intracardiac Pacemaker into Right Atrium, Percutaneous Approach	PX	ICD-10-PCS
02H63YZ	Insertion of Other Device into Right Atrium, Percutaneous Approach	PX	ICD-10-PCS
02H643Z	Insertion of Infusion Device into Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H64DZ	Insertion of Intraluminal Device into Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H64JZ	Insertion of Pacemaker Lead into Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H64KZ	Insertion of Defibrillator Lead into Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H64MZ	Insertion of Cardiac Lead into Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H64NZ	Insertion of Intracardiac Pacemaker into Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H64YZ	Insertion of Other Device into Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H703Z	Insertion of Infusion Device into Left Atrium, Open Approach	PX	ICD-10-PCS
02H70DZ	Insertion of Intraluminal Device into Left Atrium, Open Approach	PX	ICD-10-PCS
02H70JZ	Insertion of Pacemaker Lead into Left Atrium, Open Approach	PX	ICD-10-PCS
02H70KZ	Insertion of Defibrillator Lead into Left Atrium, Open Approach	PX	ICD-10-PCS
02H70MZ	Insertion of Cardiac Lead into Left Atrium, Open Approach	PX	ICD-10-PCS
02H70NZ	Insertion of Intracardiac Pacemaker into Left Atrium, Open Approach	PX	ICD-10-PCS
02H70YZ	Insertion of Other Device into Left Atrium, Open Approach	PX	ICD-10-PCS
02H73KZ	Insertion of Defibrillator Lead into Left Atrium, Percutaneous Approach	PX	ICD-10-PCS
02H73NZ	Insertion of Intracardiac Pacemaker into Left Atrium, Percutaneous Approach	PX	ICD-10-PCS
02H73YZ	Insertion of Other Device into Left Atrium, Percutaneous Approach	PX	ICD-10-PCS
02H743Z	Insertion of Infusion Device into Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H74DZ	Insertion of Intraluminal Device into Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H74JZ	Insertion of Pacemaker Lead into Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02H74KZ	Insertion of Defibrillator Lead into Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H74MZ	Insertion of Cardiac Lead into Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H74NZ	Insertion of Intracardiac Pacemaker into Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02H74YZ	Insertion of Other Device into Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HA0QZ	Insertion of Implantable Heart Assist System into Heart, Open Approach	PX	ICD-10-PCS
02HA0RJ	Insertion of Short-term External Heart Assist System into Heart, Intraoperative, Open Approach	PX	ICD-10-PCS
02HA0RS	Insertion of Biventricular Short-term External Heart Assist System into Heart, Open Approach	PX	ICD-10-PCS
02HA0RZ	Insertion of Short-term External Heart Assist System into Heart, Open Approach	PX	ICD-10-PCS
02HA0YZ	Insertion of Other Device into Heart, Open Approach	PX	ICD-10-PCS
02HA3QZ	Insertion of Implantable Heart Assist System into Heart, Percutaneous Approach	PX	ICD-10-PCS
02HA3RJ	Insertion of Short-term External Heart Assist System into Heart, Intraoperative, Percutaneous Approach	PX	ICD-10-PCS
02HA3RS	Insertion of Biventricular Short-term External Heart Assist System into Heart, Percutaneous Approach	PX	ICD-10-PCS
02HA3RZ	Insertion of Short-term External Heart Assist System into Heart, Percutaneous Approach	PX	ICD-10-PCS
02HA3YZ	Insertion of Other Device into Heart, Percutaneous Approach	PX	ICD-10-PCS
02HA4QZ	Insertion of Implantable Heart Assist System into Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HA4RJ	Insertion of Short-term External Heart Assist System into Heart, Intraoperative, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HA4RS	Insertion of Biventricular Short-term External Heart Assist System into Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HA4RZ	Insertion of Short-term External Heart Assist System into Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HA4YZ	Insertion of Other Device into Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HK03Z	Insertion of Infusion Device into Right Ventricle, Open Approach	PX	ICD-10-PCS
02HK0DZ	Insertion of Intraluminal Device into Right Ventricle, Open Approach	PX	ICD-10-PCS
02HK0JZ	Insertion of Pacemaker Lead into Right Ventricle, Open Approach	PX	ICD-10-PCS
02HK0KZ	Insertion of Defibrillator Lead into Right Ventricle, Open Approach	PX	ICD-10-PCS
02HK0MZ	Insertion of Cardiac Lead into Right Ventricle, Open Approach	PX	ICD-10-PCS
02HK0NZ	Insertion of Intracardiac Pacemaker into Right Ventricle, Open Approach	PX	ICD-10-PCS
02HK0YZ	Insertion of Other Device into Right Ventricle, Open Approach	PX	ICD-10-PCS
02HK3KZ	Insertion of Defibrillator Lead into Right Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02HK3NZ	Insertion of Intracardiac Pacemaker into Right Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02HK3YZ	Insertion of Other Device into Right Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02HK43Z	Insertion of Infusion Device into Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HK4DZ	Insertion of Intraluminal Device into Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02HK4JZ	Insertion of Pacemaker Lead into Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HK4KZ	Insertion of Defibrillator Lead into Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HK4MZ	Insertion of Cardiac Lead into Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HK4NZ	Insertion of Intracardiac Pacemaker into Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HK4YZ	Insertion of Other Device into Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HL03Z	Insertion of Infusion Device into Left Ventricle, Open Approach	PX	ICD-10-PCS
02HL0DZ	Insertion of Intraluminal Device into Left Ventricle, Open Approach	PX	ICD-10-PCS
02HL0JZ	Insertion of Pacemaker Lead into Left Ventricle, Open Approach	PX	ICD-10-PCS
02HL0KZ	Insertion of Defibrillator Lead into Left Ventricle, Open Approach	PX	ICD-10-PCS
02HL0MZ	Insertion of Cardiac Lead into Left Ventricle, Open Approach	PX	ICD-10-PCS
02HL0NZ	Insertion of Intracardiac Pacemaker into Left Ventricle, Open Approach	PX	ICD-10-PCS
02HL0YZ	Insertion of Other Device into Left Ventricle, Open Approach	PX	ICD-10-PCS
02HL3KZ	Insertion of Defibrillator Lead into Left Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02HL3NZ	Insertion of Intracardiac Pacemaker into Left Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02HL3YZ	Insertion of Other Device into Left Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02HL43Z	Insertion of Infusion Device into Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HL4DZ	Insertion of Intraluminal Device into Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HL4JZ	Insertion of Pacemaker Lead into Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HL4KZ	Insertion of Defibrillator Lead into Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HL4MZ	Insertion of Cardiac Lead into Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HL4NZ	Insertion of Intracardiac Pacemaker into Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HL4YZ	Insertion of Other Device into Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HN0KZ	Insertion of Defibrillator Lead into Pericardium, Open Approach	PX	ICD-10-PCS
02HN0YZ	Insertion of Other Device into Pericardium, Open Approach	PX	ICD-10-PCS
02HN3KZ	Insertion of Defibrillator Lead into Pericardium, Percutaneous Approach	PX	ICD-10-PCS
02HN3YZ	Insertion of Other Device into Pericardium, Percutaneous Approach	PX	ICD-10-PCS
02HN4JZ	Insertion of Pacemaker Lead into Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HN4KZ	Insertion of Defibrillator Lead into Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HN4MZ	Insertion of Cardiac Lead into Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HN4YZ	Insertion of Other Device into Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HP03Z	Insertion of Infusion Device into Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
02HP0DZ	Insertion of Intraluminal Device into Pulmonary Trunk, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02HP0YZ	Insertion of Other Device into Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
02HP43Z	Insertion of Infusion Device into Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HP4DZ	Insertion of Intraluminal Device into Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HP4YZ	Insertion of Other Device into Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HQ03Z	Insertion of Infusion Device into Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02HQ0DZ	Insertion of Intraluminal Device into Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02HQ0YZ	Insertion of Other Device into Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02HQ43Z	Insertion of Infusion Device into Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HQ4DZ	Insertion of Intraluminal Device into Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HQ4YZ	Insertion of Other Device into Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HR03Z	Insertion of Infusion Device into Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02HR0DZ	Insertion of Intraluminal Device into Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02HR0YZ	Insertion of Other Device into Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02HR43Z	Insertion of Infusion Device into Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HR4DZ	Insertion of Intraluminal Device into Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HR4YZ	Insertion of Other Device into Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HS03Z	Insertion of Infusion Device into Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02HS0DZ	Insertion of Intraluminal Device into Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02HS0YZ	Insertion of Other Device into Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02HS3YZ	Insertion of Other Device into Right Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02HS43Z	Insertion of Infusion Device into Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HS4DZ	Insertion of Intraluminal Device into Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HS4YZ	Insertion of Other Device into Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HT03Z	Insertion of Infusion Device into Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02HT0DZ	Insertion of Intraluminal Device into Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02HT0YZ	Insertion of Other Device into Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02HT3YZ	Insertion of Other Device into Left Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02HT43Z	Insertion of Infusion Device into Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HT4DZ	Insertion of Intraluminal Device into Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HT4YZ	Insertion of Other Device into Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02HV03Z	Insertion of Infusion Device into Superior Vena Cava, Open Approach	PX	ICD-10-PCS
02HV0YZ	Insertion of Other Device into Superior Vena Cava, Open Approach	PX	ICD-10-PCS
02HV43Z	Insertion of Infusion Device into Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HV4DZ	Insertion of Intraluminal Device into Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HV4YZ	Insertion of Other Device into Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HW03Z	Insertion of Infusion Device into Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
02HW0DZ	Insertion of Intraluminal Device into Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
02HW0YZ	Insertion of Other Device into Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
02HW3RZ	Insertion of Short-term External Heart Assist System into Thoracic Aorta, Descending, Percutaneous Approach	PX	ICD-10-PCS
02HW43Z	Insertion of Infusion Device into Thoracic Aorta, Descending, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HW4DZ	Insertion of Intraluminal Device into Thoracic Aorta, Descending, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HW4YZ	Insertion of Other Device into Thoracic Aorta, Descending, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HX03Z	Insertion of Infusion Device into Thoracic Aorta, Ascending/Arch, Open Approach	PX	ICD-10-PCS
02HX0DZ	Insertion of Intraluminal Device into Thoracic Aorta, Ascending/Arch, Open Approach	PX	ICD-10-PCS
02HX43Z	Insertion of Infusion Device into Thoracic Aorta, Ascending/Arch, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02HX4DZ	Insertion of Intraluminal Device into Thoracic Aorta, Ascending/Arch, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02L70CK	Occlusion of Left Atrial Appendage with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02L70DK	Occlusion of Left Atrial Appendage with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02L70ZK	Occlusion of Left Atrial Appendage, Open Approach	PX	ICD-10-PCS
02L74CK	Occlusion of Left Atrial Appendage with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02L74DK	Occlusion of Left Atrial Appendage with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02L74ZK	Occlusion of Left Atrial Appendage, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LH0CZ	Occlusion of Pulmonary Valve with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02LH0DZ	Occlusion of Pulmonary Valve with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02LH0ZZ	Occlusion of Pulmonary Valve, Open Approach	PX	ICD-10-PCS
02LH3CZ	Occlusion of Pulmonary Valve with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LH3DZ	Occlusion of Pulmonary Valve with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LH3ZZ	Occlusion of Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
02LH4CZ	Occlusion of Pulmonary Valve with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02LH4DZ	Occlusion of Pulmonary Valve with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LH4ZZ	Occlusion of Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LP0CZ	Occlusion of Pulmonary Trunk with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02LP0DZ	Occlusion of Pulmonary Trunk with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02LP0ZZ	Occlusion of Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
02LP3CZ	Occlusion of Pulmonary Trunk with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LP3DZ	Occlusion of Pulmonary Trunk with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LP3ZZ	Occlusion of Pulmonary Trunk, Percutaneous Approach	PX	ICD-10-PCS
02LP4CZ	Occlusion of Pulmonary Trunk with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LP4DZ	Occlusion of Pulmonary Trunk with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LP4ZZ	Occlusion of Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LQ0CZ	Occlusion of Right Pulmonary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02LQ0DZ	Occlusion of Right Pulmonary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02LQ0ZZ	Occlusion of Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02LQ3CZ	Occlusion of Right Pulmonary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LQ3DZ	Occlusion of Right Pulmonary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LQ3ZZ	Occlusion of Right Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02LQ4CZ	Occlusion of Right Pulmonary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LQ4DZ	Occlusion of Right Pulmonary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LQ4ZZ	Occlusion of Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LR0CT	Occlusion of Ductus Arteriosus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02LR0CZ	Occlusion of Left Pulmonary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02LR0DT	Occlusion of Ductus Arteriosus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02LR0DZ	Occlusion of Left Pulmonary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02LR0ZT	Occlusion of Ductus Arteriosus, Open Approach	PX	ICD-10-PCS
02LR0ZZ	Occlusion of Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02LR3CT	Occlusion of Ductus Arteriosus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LR3CZ	Occlusion of Left Pulmonary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LR3DT	Occlusion of Ductus Arteriosus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LR3DZ	Occlusion of Left Pulmonary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LR3ZT	Occlusion of Ductus Arteriosus, Percutaneous Approach	PX	ICD-10-PCS
02LR3ZZ	Occlusion of Left Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02LR4CT	Occlusion of Ductus Arteriosus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LR4CZ	Occlusion of Left Pulmonary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LR4DT	Occlusion of Ductus Arteriosus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LR4DZ	Occlusion of Left Pulmonary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LR4ZT	Occlusion of Ductus Arteriosus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LR4ZZ	Occlusion of Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LS0CZ	Occlusion of Right Pulmonary Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02LS0DZ	Occlusion of Right Pulmonary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02LS0ZZ	Occlusion of Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02LS3CZ	Occlusion of Right Pulmonary Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LS3DZ	Occlusion of Right Pulmonary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LS3ZZ	Occlusion of Right Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02LS4CZ	Occlusion of Right Pulmonary Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LS4DZ	Occlusion of Right Pulmonary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LS4ZZ	Occlusion of Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LT0CZ	Occlusion of Left Pulmonary Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02LT0DZ	Occlusion of Left Pulmonary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02LT0ZZ	Occlusion of Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02LT3CZ	Occlusion of Left Pulmonary Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LT3DZ	Occlusion of Left Pulmonary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LT3ZZ	Occlusion of Left Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02LT4CZ	Occlusion of Left Pulmonary Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LT4DZ	Occlusion of Left Pulmonary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LT4ZZ	Occlusion of Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LV0CZ	Occlusion of Superior Vena Cava with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02LV0DZ	Occlusion of Superior Vena Cava with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02LV0ZZ	Occlusion of Superior Vena Cava, Open Approach	PX	ICD-10-PCS
02LV3CZ	Occlusion of Superior Vena Cava with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LV3DZ	Occlusion of Superior Vena Cava with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02LV3ZZ	Occlusion of Superior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02LV4CZ	Occlusion of Superior Vena Cava with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LV4DZ	Occlusion of Superior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LV4ZZ	Occlusion of Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02LW0DJ	Occlusion of Thoracic Aorta, Descending with Intraluminal Device, Temporary, Open Approach	PX	ICD-10-PCS
02N00ZZ	Release Coronary Artery, One Artery, Open Approach	PX	ICD-10-PCS
02N03ZZ	Release Coronary Artery, One Artery, Percutaneous Approach	PX	ICD-10-PCS
02N04ZZ	Release Coronary Artery, One Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02N10ZZ	Release Coronary Artery, Two Arteries, Open Approach	PX	ICD-10-PCS
02N13ZZ	Release Coronary Artery, Two Arteries, Percutaneous Approach	PX	ICD-10-PCS
02N14ZZ	Release Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02N20ZZ	Release Coronary Artery, Three Arteries, Open Approach	PX	ICD-10-PCS
02N23ZZ	Release Coronary Artery, Three Arteries, Percutaneous Approach	PX	ICD-10-PCS
02N24ZZ	Release Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02N30ZZ	Release Coronary Artery, Four or More Arteries, Open Approach	PX	ICD-10-PCS
02N33ZZ	Release Coronary Artery, Four or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
02N34ZZ	Release Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02N40ZZ	Release Coronary Vein, Open Approach	PX	ICD-10-PCS
02N43ZZ	Release Coronary Vein, Percutaneous Approach	PX	ICD-10-PCS
02N44ZZ	Release Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02N50ZZ	Release Atrial Septum, Open Approach	PX	ICD-10-PCS
02N53ZZ	Release Atrial Septum, Percutaneous Approach	PX	ICD-10-PCS
02N54ZZ	Release Atrial Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02N60ZZ	Release Right Atrium, Open Approach	PX	ICD-10-PCS
02N63ZZ	Release Right Atrium, Percutaneous Approach	PX	ICD-10-PCS
02N64ZZ	Release Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02N70ZZ	Release Left Atrium, Open Approach	PX	ICD-10-PCS
02N73ZZ	Release Left Atrium, Percutaneous Approach	PX	ICD-10-PCS
02N74ZZ	Release Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02N80ZZ	Release Conduction Mechanism, Open Approach	PX	ICD-10-PCS
02N83ZZ	Release Conduction Mechanism, Percutaneous Approach	PX	ICD-10-PCS
02N84ZZ	Release Conduction Mechanism, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02N90ZZ	Release Chordae Tendineae, Open Approach	PX	ICD-10-PCS
02N93ZZ	Release Chordae Tendineae, Percutaneous Approach	PX	ICD-10-PCS
02N94ZZ	Release Chordae Tendineae, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02ND0ZZ	Release Papillary Muscle, Open Approach	PX	ICD-10-PCS
02ND3ZZ	Release Papillary Muscle, Percutaneous Approach	PX	ICD-10-PCS
02ND4ZZ	Release Papillary Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NF0ZZ	Release Aortic Valve, Open Approach	PX	ICD-10-PCS
02NF3ZZ	Release Aortic Valve, Percutaneous Approach	PX	ICD-10-PCS
02NF4ZZ	Release Aortic Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NG0ZZ	Release Mitral Valve, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02NG3ZZ	Release Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
02NG4ZZ	Release Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NH0ZZ	Release Pulmonary Valve, Open Approach	PX	ICD-10-PCS
02NH3ZZ	Release Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
02NH4ZZ	Release Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NJ0ZZ	Release Tricuspid Valve, Open Approach	PX	ICD-10-PCS
02NJ3ZZ	Release Tricuspid Valve, Percutaneous Approach	PX	ICD-10-PCS
02NJ4ZZ	Release Tricuspid Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NK0ZZ	Release Right Ventricle, Open Approach	PX	ICD-10-PCS
02NK3ZZ	Release Right Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02NK4ZZ	Release Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NL0ZZ	Release Left Ventricle, Open Approach	PX	ICD-10-PCS
02NL3ZZ	Release Left Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02NL4ZZ	Release Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NM0ZZ	Release Ventricular Septum, Open Approach	PX	ICD-10-PCS
02NM3ZZ	Release Ventricular Septum, Percutaneous Approach	PX	ICD-10-PCS
02NM4ZZ	Release Ventricular Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NN0ZZ	Release Pericardium, Open Approach	PX	ICD-10-PCS
02NN3ZZ	Release Pericardium, Percutaneous Approach	PX	ICD-10-PCS
02NN4ZZ	Release Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NP0ZZ	Release Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
02NP3ZZ	Release Pulmonary Trunk, Percutaneous Approach	PX	ICD-10-PCS
02NP4ZZ	Release Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NQ0ZZ	Release Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02NQ3ZZ	Release Right Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02NQ4ZZ	Release Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NR0ZZ	Release Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02NR3ZZ	Release Left Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02NR4ZZ	Release Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NS0ZZ	Release Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02NS3ZZ	Release Right Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02NS4ZZ	Release Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NT0ZZ	Release Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02NT3ZZ	Release Left Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02NT4ZZ	Release Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NV0ZZ	Release Superior Vena Cava, Open Approach	PX	ICD-10-PCS
02NV3ZZ	Release Superior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
02NV4ZZ	Release Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NW0ZZ	Release Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
02NW3ZZ	Release Thoracic Aorta, Descending, Percutaneous Approach	PX	ICD-10-PCS
02NW4ZZ	Release Thoracic Aorta, Descending, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02NX0ZZ	Release Thoracic Aorta, Ascending/Arch, Open Approach	PX	ICD-10-PCS
02NX3ZZ	Release Thoracic Aorta, Ascending/Arch, Percutaneous Approach	PX	ICD-10-PCS
02NX4ZZ	Release Thoracic Aorta, Ascending/Arch, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA02Z	Removal of Monitoring Device from Heart, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02PA03Z	Removal of Infusion Device from Heart, Open Approach	PX	ICD-10-PCS
02PA07Z	Removal of Autologous Tissue Substitute from Heart, Open Approach	PX	ICD-10-PCS
02PA08Z	Removal of Zooplastic Tissue from Heart, Open Approach	PX	ICD-10-PCS
02PA0CZ	Removal of Extraluminal Device from Heart, Open Approach	PX	ICD-10-PCS
02PA0DZ	Removal of Intraluminal Device from Heart, Open Approach	PX	ICD-10-PCS
02PA0JZ	Removal of Synthetic Substitute from Heart, Open Approach	PX	ICD-10-PCS
02PA0KZ	Removal of Nonautologous Tissue Substitute from Heart, Open Approach	PX	ICD-10-PCS
02PA0MZ	Removal of Cardiac Lead from Heart, Open Approach	PX	ICD-10-PCS
02PA0NZ	Removal of Intracardiac Pacemaker from Heart, Open Approach	PX	ICD-10-PCS
02PA0QZ	Removal of Implantable Heart Assist System from Heart, Open Approach	PX	ICD-10-PCS
02PA0RS	Removal of Biventricular Short-term External Heart Assist System from Heart, Open Approach	PX	ICD-10-PCS
02PA0RZ	Removal of Short-term External Heart Assist System from Heart, Open Approach	PX	ICD-10-PCS
02PA0YZ	Removal of Other Device from Heart, Open Approach	PX	ICD-10-PCS
02PA37Z	Removal of Autologous Tissue Substitute from Heart, Percutaneous Approach	PX	ICD-10-PCS
02PA38Z	Removal of Zooplastic Tissue from Heart, Percutaneous Approach	PX	ICD-10-PCS
02PA3CZ	Removal of Extraluminal Device from Heart, Percutaneous Approach	PX	ICD-10-PCS
02PA3JZ	Removal of Synthetic Substitute from Heart, Percutaneous Approach	PX	ICD-10-PCS
02PA3KZ	Removal of Nonautologous Tissue Substitute from Heart, Percutaneous Approach	PX	ICD-10-PCS
02PA3MZ	Removal of Cardiac Lead from Heart, Percutaneous Approach	PX	ICD-10-PCS
02PA3NZ	Removal of Intracardiac Pacemaker from Heart, Percutaneous Approach	PX	ICD-10-PCS
02PA3QZ	Removal of Implantable Heart Assist System from Heart, Percutaneous Approach	PX	ICD-10-PCS
02PA3RS	Removal of Biventricular Short-term External Heart Assist System from Heart, Percutaneous Approach	PX	ICD-10-PCS
02PA3RZ	Removal of Short-term External Heart Assist System from Heart, Percutaneous Approach	PX	ICD-10-PCS
02PA42Z	Removal of Monitoring Device from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA43Z	Removal of Infusion Device from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA47Z	Removal of Autologous Tissue Substitute from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA48Z	Removal of Zooplastic Tissue from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA4CZ	Removal of Extraluminal Device from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA4DZ	Removal of Intraluminal Device from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA4JZ	Removal of Synthetic Substitute from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA4KZ	Removal of Nonautologous Tissue Substitute from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA4MZ	Removal of Cardiac Lead from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA4NZ	Removal of Intracardiac Pacemaker from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA4QZ	Removal of Implantable Heart Assist System from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02PA4RS	Removal of Biventricular Short-term External Heart Assist System from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA4RZ	Removal of Short-term External Heart Assist System from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PA4YZ	Removal of Other Device from Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PW3RZ	Removal of Short-term External Heart Assist System from Thoracic Aorta, Descending, Percutaneous Approach	PX	ICD-10-PCS
02PY02Z	Removal of Monitoring Device from Great Vessel, Open Approach	PX	ICD-10-PCS
02PY03Z	Removal of Infusion Device from Great Vessel, Open Approach	PX	ICD-10-PCS
02PY07Z	Removal of Autologous Tissue Substitute from Great Vessel, Open Approach	PX	ICD-10-PCS
02PY08Z	Removal of Zooplastic Tissue from Great Vessel, Open Approach	PX	ICD-10-PCS
02PY0CZ	Removal of Extraluminal Device from Great Vessel, Open Approach	PX	ICD-10-PCS
02PY0DZ	Removal of Intraluminal Device from Great Vessel, Open Approach	PX	ICD-10-PCS
02PY0JZ	Removal of Synthetic Substitute from Great Vessel, Open Approach	PX	ICD-10-PCS
02PY0KZ	Removal of Nonautologous Tissue Substitute from Great Vessel, Open Approach	PX	ICD-10-PCS
02PY0YZ	Removal of Other Device from Great Vessel, Open Approach	PX	ICD-10-PCS
02PY37Z	Removal of Autologous Tissue Substitute from Great Vessel, Percutaneous Approach	PX	ICD-10-PCS
02PY38Z	Removal of Zooplastic Tissue from Great Vessel, Percutaneous Approach	PX	ICD-10-PCS
02PY3CZ	Removal of Extraluminal Device from Great Vessel, Percutaneous Approach	PX	ICD-10-PCS
02PY3JZ	Removal of Synthetic Substitute from Great Vessel, Percutaneous Approach	PX	ICD-10-PCS
02PY3KZ	Removal of Nonautologous Tissue Substitute from Great Vessel, Percutaneous Approach	PX	ICD-10-PCS
02PY42Z	Removal of Monitoring Device from Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PY43Z	Removal of Infusion Device from Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PY47Z	Removal of Autologous Tissue Substitute from Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PY48Z	Removal of Zooplastic Tissue from Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PY4CZ	Removal of Extraluminal Device from Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PY4DZ	Removal of Intraluminal Device from Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PY4JZ	Removal of Synthetic Substitute from Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PY4KZ	Removal of Nonautologous Tissue Substitute from Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02PY4YZ	Removal of Other Device from Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02Q00ZZ	Repair Coronary Artery, One Artery, Open Approach	PX	ICD-10-PCS
02Q03ZZ	Repair Coronary Artery, One Artery, Percutaneous Approach	PX	ICD-10-PCS
02Q04ZZ	Repair Coronary Artery, One Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02Q10ZZ	Repair Coronary Artery, Two Arteries, Open Approach	PX	ICD-10-PCS
02Q13ZZ	Repair Coronary Artery, Two Arteries, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02Q14ZZ	Repair Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02Q20ZZ	Repair Coronary Artery, Three Arteries, Open Approach	PX	ICD-10-PCS
02Q23ZZ	Repair Coronary Artery, Three Arteries, Percutaneous Approach	PX	ICD-10-PCS
02Q24ZZ	Repair Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02Q30ZZ	Repair Coronary Artery, Four or More Arteries, Open Approach	PX	ICD-10-PCS
02Q33ZZ	Repair Coronary Artery, Four or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
02Q34ZZ	Repair Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02Q40ZZ	Repair Coronary Vein, Open Approach	PX	ICD-10-PCS
02Q43ZZ	Repair Coronary Vein, Percutaneous Approach	PX	ICD-10-PCS
02Q44ZZ	Repair Coronary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02Q50ZZ	Repair Atrial Septum, Open Approach	PX	ICD-10-PCS
02Q53ZZ	Repair Atrial Septum, Percutaneous Approach	PX	ICD-10-PCS
02Q54ZZ	Repair Atrial Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02Q60ZZ	Repair Right Atrium, Open Approach	PX	ICD-10-PCS
02Q63ZZ	Repair Right Atrium, Percutaneous Approach	PX	ICD-10-PCS
02Q64ZZ	Repair Right Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02Q70ZZ	Repair Left Atrium, Open Approach	PX	ICD-10-PCS
02Q73ZZ	Repair Left Atrium, Percutaneous Approach	PX	ICD-10-PCS
02Q74ZZ	Repair Left Atrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02Q80ZZ	Repair Conduction Mechanism, Open Approach	PX	ICD-10-PCS
02Q83ZZ	Repair Conduction Mechanism, Percutaneous Approach	PX	ICD-10-PCS
02Q84ZZ	Repair Conduction Mechanism, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02Q90ZZ	Repair Chordae Tendineae, Open Approach	PX	ICD-10-PCS
02Q93ZZ	Repair Chordae Tendineae, Percutaneous Approach	PX	ICD-10-PCS
02Q94ZZ	Repair Chordae Tendineae, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QA0ZZ	Repair Heart, Open Approach	PX	ICD-10-PCS
02QA3ZZ	Repair Heart, Percutaneous Approach	PX	ICD-10-PCS
02QA4ZZ	Repair Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QB0ZZ	Repair Right Heart, Open Approach	PX	ICD-10-PCS
02QB3ZZ	Repair Right Heart, Percutaneous Approach	PX	ICD-10-PCS
02QB4ZZ	Repair Right Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QC0ZZ	Repair Left Heart, Open Approach	PX	ICD-10-PCS
02QC3ZZ	Repair Left Heart, Percutaneous Approach	PX	ICD-10-PCS
02QC4ZZ	Repair Left Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QD0ZZ	Repair Papillary Muscle, Open Approach	PX	ICD-10-PCS
02QD3ZZ	Repair Papillary Muscle, Percutaneous Approach	PX	ICD-10-PCS
02QD4ZZ	Repair Papillary Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QF0ZJ	Repair Aortic Valve created from Truncal Valve, Open Approach	PX	ICD-10-PCS
02QF0ZZ	Repair Aortic Valve, Open Approach	PX	ICD-10-PCS
02QF3ZJ	Repair Aortic Valve created from Truncal Valve, Percutaneous Approach	PX	ICD-10-PCS
02QF3ZZ	Repair Aortic Valve, Percutaneous Approach	PX	ICD-10-PCS
02QF4ZJ	Repair Aortic Valve created from Truncal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QF4ZZ	Repair Aortic Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02QG0ZE	Repair Mitral Valve created from Left Atrioventricular Valve, Open Approach	PX	ICD-10-PCS
02QG0ZZ	Repair Mitral Valve, Open Approach	PX	ICD-10-PCS
02QG3ZE	Repair Mitral Valve created from Left Atrioventricular Valve, Percutaneous Approach	PX	ICD-10-PCS
02QG3ZZ	Repair Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
02QG4ZE	Repair Mitral Valve created from Left Atrioventricular Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QG4ZZ	Repair Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QH0ZZ	Repair Pulmonary Valve, Open Approach	PX	ICD-10-PCS
02QH3ZZ	Repair Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
02QH4ZZ	Repair Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QJ0ZG	Repair Tricuspid Valve created from Right Atrioventricular Valve, Open Approach	PX	ICD-10-PCS
02QJ0ZZ	Repair Tricuspid Valve, Open Approach	PX	ICD-10-PCS
02QJ3ZG	Repair Tricuspid Valve created from Right Atrioventricular Valve, Percutaneous Approach	PX	ICD-10-PCS
02QJ3ZZ	Repair Tricuspid Valve, Percutaneous Approach	PX	ICD-10-PCS
02QJ4ZG	Repair Tricuspid Valve created from Right Atrioventricular Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QJ4ZZ	Repair Tricuspid Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QK0ZZ	Repair Right Ventricle, Open Approach	PX	ICD-10-PCS
02QK3ZZ	Repair Right Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02QK4ZZ	Repair Right Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QL0ZZ	Repair Left Ventricle, Open Approach	PX	ICD-10-PCS
02QL3ZZ	Repair Left Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02QL4ZZ	Repair Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QM0ZZ	Repair Ventricular Septum, Open Approach	PX	ICD-10-PCS
02QM3ZZ	Repair Ventricular Septum, Percutaneous Approach	PX	ICD-10-PCS
02QM4ZZ	Repair Ventricular Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QN0ZZ	Repair Pericardium, Open Approach	PX	ICD-10-PCS
02QN3ZZ	Repair Pericardium, Percutaneous Approach	PX	ICD-10-PCS
02QN4ZZ	Repair Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QP0ZZ	Repair Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
02QP3ZZ	Repair Pulmonary Trunk, Percutaneous Approach	PX	ICD-10-PCS
02QP4ZZ	Repair Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QQ0ZZ	Repair Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02QQ3ZZ	Repair Right Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02QQ4ZZ	Repair Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QR0ZZ	Repair Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02QR3ZZ	Repair Left Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02QR4ZZ	Repair Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QS0ZZ	Repair Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02QS3ZZ	Repair Right Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02QS4ZZ	Repair Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QT0ZZ	Repair Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02QT3ZZ	Repair Left Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02QT4ZZ	Repair Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QV0ZZ	Repair Superior Vena Cava, Open Approach	PX	ICD-10-PCS
02QV3ZZ	Repair Superior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
02QV4ZZ	Repair Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QW0ZZ	Repair Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
02QW3ZZ	Repair Thoracic Aorta, Descending, Percutaneous Approach	PX	ICD-10-PCS
02QW4ZZ	Repair Thoracic Aorta, Descending, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02QX0ZZ	Repair Thoracic Aorta, Ascending/Arch, Open Approach	PX	ICD-10-PCS
02QX3ZZ	Repair Thoracic Aorta, Ascending/Arch, Percutaneous Approach	PX	ICD-10-PCS
02QX4ZZ	Repair Thoracic Aorta, Ascending/Arch, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R507Z	Replacement of Atrial Septum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02R508Z	Replacement of Atrial Septum with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02R50JZ	Replacement of Atrial Septum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02R50KZ	Replacement of Atrial Septum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02R547Z	Replacement of Atrial Septum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R548Z	Replacement of Atrial Septum with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R54JZ	Replacement of Atrial Septum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R54KZ	Replacement of Atrial Septum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R607Z	Replacement of Right Atrium with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02R608Z	Replacement of Right Atrium with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02R60JZ	Replacement of Right Atrium with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02R60KZ	Replacement of Right Atrium with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02R647Z	Replacement of Right Atrium with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R648Z	Replacement of Right Atrium with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R64JZ	Replacement of Right Atrium with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R64KZ	Replacement of Right Atrium with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R707Z	Replacement of Left Atrium with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02R708Z	Replacement of Left Atrium with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02R70JZ	Replacement of Left Atrium with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02R70KZ	Replacement of Left Atrium with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02R747Z	Replacement of Left Atrium with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R748Z	Replacement of Left Atrium with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R74JZ	Replacement of Left Atrium with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R74KZ	Replacement of Left Atrium with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R907Z	Replacement of Chordae Tendineae with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02R908Z	Replacement of Chordae Tendineae with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02R90JZ	Replacement of Chordae Tendineae with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02R90KZ	Replacement of Chordae Tendineae with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02R947Z	Replacement of Chordae Tendineae with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R948Z	Replacement of Chordae Tendineae with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R94JZ	Replacement of Chordae Tendineae with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02R94KZ	Replacement of Chordae Tendineae with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RA0LZ	Replacement of Heart with Biologic and Synthetic Substitute, Autoregulated Electrohydraulic, Open Approach	PX	ICD-10-PCS
02RA0MZ	Replacement of Heart with Synthetic Substitute, Pneumatic, Open Approach	PX	ICD-10-PCS
02RD07Z	Replacement of Papillary Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RD08Z	Replacement of Papillary Muscle with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RD0JZ	Replacement of Papillary Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RD0KZ	Replacement of Papillary Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RD47Z	Replacement of Papillary Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RD48Z	Replacement of Papillary Muscle with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RD4JZ	Replacement of Papillary Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RD4KZ	Replacement of Papillary Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RF07Z	Replacement of Aortic Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RF08N	Replacement of Aortic Valve with Zooplastic Tissue, using Rapid Deployment Technique, Open Approach	PX	ICD-10-PCS
02RF08Z	Replacement of Aortic Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RF0JZ	Replacement of Aortic Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02RF0KZ	Replacement of Aortic Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RF37H	Replacement of Aortic Valve with Autologous Tissue Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RF37Z	Replacement of Aortic Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RF38H	Replacement of Aortic Valve with Zooplastic Tissue, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RF38N	Replacement of Aortic Valve with Zooplastic Tissue, using Rapid Deployment Technique, Percutaneous Approach	PX	ICD-10-PCS
02RF38Z	Replacement of Aortic Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02RF3JH	Replacement of Aortic Valve with Synthetic Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RF3JZ	Replacement of Aortic Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RF3KH	Replacement of Aortic Valve with Nonautologous Tissue Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RF3KZ	Replacement of Aortic Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RF47Z	Replacement of Aortic Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RF48N	Replacement of Aortic Valve with Zooplastic Tissue, using Rapid Deployment Technique, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RF48Z	Replacement of Aortic Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RF4JZ	Replacement of Aortic Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RF4KZ	Replacement of Aortic Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RG07Z	Replacement of Mitral Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RG08Z	Replacement of Mitral Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RG0JZ	Replacement of Mitral Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RG0KZ	Replacement of Mitral Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RG37H	Replacement of Mitral Valve with Autologous Tissue Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RG37Z	Replacement of Mitral Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RG38H	Replacement of Mitral Valve with Zooplastic Tissue, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RG38Z	Replacement of Mitral Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02RG3JH	Replacement of Mitral Valve with Synthetic Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RG3JZ	Replacement of Mitral Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RG3KH	Replacement of Mitral Valve with Nonautologous Tissue Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02RG3KZ	Replacement of Mitral Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RG47Z	Replacement of Mitral Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RG48Z	Replacement of Mitral Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RG4JZ	Replacement of Mitral Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RG4KZ	Replacement of Mitral Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RH07Z	Replacement of Pulmonary Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RH08Z	Replacement of Pulmonary Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RH0JZ	Replacement of Pulmonary Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RH0KZ	Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RH37H	Replacement of Pulmonary Valve with Autologous Tissue Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RH37Z	Replacement of Pulmonary Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RH38H	Replacement of Pulmonary Valve with Zooplastic Tissue, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RH38L	Replacement of Pulmonary Valve with Zooplastic Tissue, In Existing Conduit, Percutaneous Approach	PX	ICD-10-PCS
02RH38M	Replacement of Pulmonary Valve with Zooplastic Tissue, Native Site, Percutaneous Approach	PX	ICD-10-PCS
02RH38Z	Replacement of Pulmonary Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02RH3JH	Replacement of Pulmonary Valve with Synthetic Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RH3JZ	Replacement of Pulmonary Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RH3KH	Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RH3KZ	Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RH47Z	Replacement of Pulmonary Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RH48Z	Replacement of Pulmonary Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RH4JZ	Replacement of Pulmonary Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RH4KZ	Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02RJ07Z	Replacement of Tricuspid Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RJ08Z	Replacement of Tricuspid Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RJ0JZ	Replacement of Tricuspid Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RJ0KZ	Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RJ37H	Replacement of Tricuspid Valve with Autologous Tissue Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RJ37Z	Replacement of Tricuspid Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RJ38H	Replacement of Tricuspid Valve with Zooplastic Tissue, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RJ38Z	Replacement of Tricuspid Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02RJ3JH	Replacement of Tricuspid Valve with Synthetic Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RJ3JZ	Replacement of Tricuspid Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RJ3KH	Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02RJ3KZ	Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RJ47Z	Replacement of Tricuspid Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RJ48Z	Replacement of Tricuspid Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RJ4JZ	Replacement of Tricuspid Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RJ4KZ	Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RK07Z	Replacement of Right Ventricle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RK08Z	Replacement of Right Ventricle with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RK0JZ	Replacement of Right Ventricle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RK0KZ	Replacement of Right Ventricle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RK47Z	Replacement of Right Ventricle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RK48Z	Replacement of Right Ventricle with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RK4JZ	Replacement of Right Ventricle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RK4KZ	Replacement of Right Ventricle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RL07Z	Replacement of Left Ventricle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02RL08Z	Replacement of Left Ventricle with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RL0JZ	Replacement of Left Ventricle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RL0KZ	Replacement of Left Ventricle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RL47Z	Replacement of Left Ventricle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RL48Z	Replacement of Left Ventricle with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RL4JZ	Replacement of Left Ventricle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RL4KZ	Replacement of Left Ventricle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RM07Z	Replacement of Ventricular Septum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RM08Z	Replacement of Ventricular Septum with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RM0JZ	Replacement of Ventricular Septum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RM0KZ	Replacement of Ventricular Septum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RM47Z	Replacement of Ventricular Septum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RM48Z	Replacement of Ventricular Septum with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RM4JZ	Replacement of Ventricular Septum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RM4KZ	Replacement of Ventricular Septum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RN07Z	Replacement of Pericardium with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RN08Z	Replacement of Pericardium with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RN0JZ	Replacement of Pericardium with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RN0KZ	Replacement of Pericardium with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RN47Z	Replacement of Pericardium with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RN48Z	Replacement of Pericardium with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RN4JZ	Replacement of Pericardium with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RN4KZ	Replacement of Pericardium with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RP07Z	Replacement of Pulmonary Trunk with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RP08Z	Replacement of Pulmonary Trunk with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RP0JZ	Replacement of Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RP0KZ	Replacement of Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02RP47Z	Replacement of Pulmonary Trunk with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RP48Z	Replacement of Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RP4JZ	Replacement of Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RP4KZ	Replacement of Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RQ07Z	Replacement of Right Pulmonary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RQ08Z	Replacement of Right Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RQ0JZ	Replacement of Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RQ0KZ	Replacement of Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RQ47Z	Replacement of Right Pulmonary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RQ48Z	Replacement of Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RQ4JZ	Replacement of Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RQ4KZ	Replacement of Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RR07Z	Replacement of Left Pulmonary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RR08Z	Replacement of Left Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RR0JZ	Replacement of Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RR0KZ	Replacement of Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RR47Z	Replacement of Left Pulmonary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RR48Z	Replacement of Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RR4JZ	Replacement of Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RR4KZ	Replacement of Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RS07Z	Replacement of Right Pulmonary Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RS08Z	Replacement of Right Pulmonary Vein with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RS0JZ	Replacement of Right Pulmonary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RS0KZ	Replacement of Right Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02RS47Z	Replacement of Right Pulmonary Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RS48Z	Replacement of Right Pulmonary Vein with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RS4JZ	Replacement of Right Pulmonary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RS4KZ	Replacement of Right Pulmonary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RT07Z	Replacement of Left Pulmonary Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RT08Z	Replacement of Left Pulmonary Vein with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RT0JZ	Replacement of Left Pulmonary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RT0KZ	Replacement of Left Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RT47Z	Replacement of Left Pulmonary Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RT48Z	Replacement of Left Pulmonary Vein with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RT4JZ	Replacement of Left Pulmonary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RT4KZ	Replacement of Left Pulmonary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RV07Z	Replacement of Superior Vena Cava with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RV08Z	Replacement of Superior Vena Cava with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RV0JZ	Replacement of Superior Vena Cava with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RV0KZ	Replacement of Superior Vena Cava with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RV47Z	Replacement of Superior Vena Cava with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RV48Z	Replacement of Superior Vena Cava with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RV4JZ	Replacement of Superior Vena Cava with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RV4KZ	Replacement of Superior Vena Cava with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RW07Z	Replacement of Thoracic Aorta, Descending with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RW08Z	Replacement of Thoracic Aorta, Descending with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RW0JZ	Replacement of Thoracic Aorta, Descending with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RW0KZ	Replacement of Thoracic Aorta, Descending with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02RW47Z	Replacement of Thoracic Aorta, Descending with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RW48Z	Replacement of Thoracic Aorta, Descending with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RW4JZ	Replacement of Thoracic Aorta, Descending with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RW4KZ	Replacement of Thoracic Aorta, Descending with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RX07Z	Replacement of Thoracic Aorta, Ascending/Arch with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RX08Z	Replacement of Thoracic Aorta, Ascending/Arch with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RX0JZ	Replacement of Thoracic Aorta, Ascending/Arch with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RX0KZ	Replacement of Thoracic Aorta, Ascending/Arch with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RX47Z	Replacement of Thoracic Aorta, Ascending/Arch with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RX48Z	Replacement of Thoracic Aorta, Ascending/Arch with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RX4JZ	Replacement of Thoracic Aorta, Ascending/Arch with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RX4KZ	Replacement of Thoracic Aorta, Ascending/Arch with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02S00ZZ	Reposition Coronary Artery, One Artery, Open Approach	PX	ICD-10-PCS
02S10ZZ	Reposition Coronary Artery, Two Arteries, Open Approach	PX	ICD-10-PCS
02SP0ZZ	Reposition Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
02SQ0ZZ	Reposition Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02SR0ZZ	Reposition Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02SS0ZZ	Reposition Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02ST0ZZ	Reposition Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02SV0ZZ	Reposition Superior Vena Cava, Open Approach	PX	ICD-10-PCS
02SW0ZZ	Reposition Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
02SX0ZZ	Reposition Thoracic Aorta, Ascending/Arch, Open Approach	PX	ICD-10-PCS
02T50ZZ	Resection of Atrial Septum, Open Approach	PX	ICD-10-PCS
02T53ZZ	Resection of Atrial Septum, Percutaneous Approach	PX	ICD-10-PCS
02T54ZZ	Resection of Atrial Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02T80ZZ	Resection of Conduction Mechanism, Open Approach	PX	ICD-10-PCS
02T83ZZ	Resection of Conduction Mechanism, Percutaneous Approach	PX	ICD-10-PCS
02T84ZZ	Resection of Conduction Mechanism, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02T90ZZ	Resection of Chordae Tendineae, Open Approach	PX	ICD-10-PCS
02T93ZZ	Resection of Chordae Tendineae, Percutaneous Approach	PX	ICD-10-PCS
02T94ZZ	Resection of Chordae Tendineae, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02TD0ZZ	Resection of Papillary Muscle, Open Approach	PX	ICD-10-PCS
02TD3ZZ	Resection of Papillary Muscle, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02TD4ZZ	Resection of Papillary Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02TH0ZZ	Resection of Pulmonary Valve, Open Approach	PX	ICD-10-PCS
02TH3ZZ	Resection of Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
02TH4ZZ	Resection of Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02TM0ZZ	Resection of Ventricular Septum, Open Approach	PX	ICD-10-PCS
02TM3ZZ	Resection of Ventricular Septum, Percutaneous Approach	PX	ICD-10-PCS
02TM4ZZ	Resection of Ventricular Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02TN0ZZ	Resection of Pericardium, Open Approach	PX	ICD-10-PCS
02TN3ZZ	Resection of Pericardium, Percutaneous Approach	PX	ICD-10-PCS
02TN4ZZ	Resection of Pericardium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U007Z	Supplement Coronary Artery, One Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U008Z	Supplement Coronary Artery, One Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02U00JZ	Supplement Coronary Artery, One Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02U00KZ	Supplement Coronary Artery, One Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U037Z	Supplement Coronary Artery, One Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U038Z	Supplement Coronary Artery, One Artery with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02U03JZ	Supplement Coronary Artery, One Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U03KZ	Supplement Coronary Artery, One Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U047Z	Supplement Coronary Artery, One Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U048Z	Supplement Coronary Artery, One Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U04JZ	Supplement Coronary Artery, One Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U04KZ	Supplement Coronary Artery, One Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U107Z	Supplement Coronary Artery, Two Arteries with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U108Z	Supplement Coronary Artery, Two Arteries with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02U10JZ	Supplement Coronary Artery, Two Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02U10KZ	Supplement Coronary Artery, Two Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U137Z	Supplement Coronary Artery, Two Arteries with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U138Z	Supplement Coronary Artery, Two Arteries with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02U13JZ	Supplement Coronary Artery, Two Arteries with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U13KZ	Supplement Coronary Artery, Two Arteries with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U147Z	Supplement Coronary Artery, Two Arteries with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U148Z	Supplement Coronary Artery, Two Arteries with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U14JZ	Supplement Coronary Artery, Two Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U14KZ	Supplement Coronary Artery, Two Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U207Z	Supplement Coronary Artery, Three Arteries with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U208Z	Supplement Coronary Artery, Three Arteries with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02U20JZ	Supplement Coronary Artery, Three Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02U20KZ	Supplement Coronary Artery, Three Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U237Z	Supplement Coronary Artery, Three Arteries with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U238Z	Supplement Coronary Artery, Three Arteries with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02U23JZ	Supplement Coronary Artery, Three Arteries with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U23KZ	Supplement Coronary Artery, Three Arteries with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U247Z	Supplement Coronary Artery, Three Arteries with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U248Z	Supplement Coronary Artery, Three Arteries with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U24JZ	Supplement Coronary Artery, Three Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U24KZ	Supplement Coronary Artery, Three Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U307Z	Supplement Coronary Artery, Four or More Arteries with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U308Z	Supplement Coronary Artery, Four or More Arteries with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02U30JZ	Supplement Coronary Artery, Four or More Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02U30KZ	Supplement Coronary Artery, Four or More Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02U337Z	Supplement Coronary Artery, Four or More Arteries with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U338Z	Supplement Coronary Artery, Four or More Arteries with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02U33JZ	Supplement Coronary Artery, Four or More Arteries with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U33KZ	Supplement Coronary Artery, Four or More Arteries with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U347Z	Supplement Coronary Artery, Four or More Arteries with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U348Z	Supplement Coronary Artery, Four or More Arteries with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U34JZ	Supplement Coronary Artery, Four or More Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U34KZ	Supplement Coronary Artery, Four or More Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U507Z	Supplement Atrial Septum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U508Z	Supplement Atrial Septum with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02U50JZ	Supplement Atrial Septum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02U50KZ	Supplement Atrial Septum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U537Z	Supplement Atrial Septum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U538Z	Supplement Atrial Septum with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02U53JZ	Supplement Atrial Septum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U53KZ	Supplement Atrial Septum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U547Z	Supplement Atrial Septum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U548Z	Supplement Atrial Septum with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U54JZ	Supplement Atrial Septum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U54KZ	Supplement Atrial Septum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U607Z	Supplement Right Atrium with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U608Z	Supplement Right Atrium with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02U60JZ	Supplement Right Atrium with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02U60KZ	Supplement Right Atrium with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U637Z	Supplement Right Atrium with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U638Z	Supplement Right Atrium with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02U63JZ	Supplement Right Atrium with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02U63KZ	Supplement Right Atrium with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U647Z	Supplement Right Atrium with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U648Z	Supplement Right Atrium with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U64JZ	Supplement Right Atrium with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U64KZ	Supplement Right Atrium with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U707Z	Supplement Left Atrium with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U708Z	Supplement Left Atrium with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02U70JZ	Supplement Left Atrium with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02U70KZ	Supplement Left Atrium with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U737Z	Supplement Left Atrium with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U738Z	Supplement Left Atrium with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02U73KZ	Supplement Left Atrium with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U747Z	Supplement Left Atrium with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U748Z	Supplement Left Atrium with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U74JZ	Supplement Left Atrium with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U74KZ	Supplement Left Atrium with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U907Z	Supplement Chordae Tendineae with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U908Z	Supplement Chordae Tendineae with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02U90JZ	Supplement Chordae Tendineae with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02U90KZ	Supplement Chordae Tendineae with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02U937Z	Supplement Chordae Tendineae with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U938Z	Supplement Chordae Tendineae with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02U93JZ	Supplement Chordae Tendineae with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U93KZ	Supplement Chordae Tendineae with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02U947Z	Supplement Chordae Tendineae with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U948Z	Supplement Chordae Tendineae with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02U94JZ	Supplement Chordae Tendineae with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02U94KZ	Supplement Chordae Tendineae with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UA07Z	Supplement Heart with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UA08Z	Supplement Heart with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UA0JZ	Supplement Heart with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UA0KZ	Supplement Heart with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UA37Z	Supplement Heart with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UA38Z	Supplement Heart with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UA3JZ	Supplement Heart with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UA3KZ	Supplement Heart with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UA47Z	Supplement Heart with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UA48Z	Supplement Heart with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UA4JZ	Supplement Heart with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UA4KZ	Supplement Heart with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UD07Z	Supplement Papillary Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UD08Z	Supplement Papillary Muscle with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UD0JZ	Supplement Papillary Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UD0KZ	Supplement Papillary Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UD37Z	Supplement Papillary Muscle with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UD38Z	Supplement Papillary Muscle with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UD3JZ	Supplement Papillary Muscle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UD3KZ	Supplement Papillary Muscle with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UD47Z	Supplement Papillary Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UD48Z	Supplement Papillary Muscle with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UD4JZ	Supplement Papillary Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UD4KZ	Supplement Papillary Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UF07J	Supplement Aortic Valve created from Truncal Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UF07Z	Supplement Aortic Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UF08J	Supplement Aortic Valve created from Truncal Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02UF08Z	Supplement Aortic Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UF0JJ	Supplement Aortic Valve created from Truncal Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UF0JZ	Supplement Aortic Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UF0KJ	Supplement Aortic Valve created from Truncal Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UF0KZ	Supplement Aortic Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UF37J	Supplement Aortic Valve created from Truncal Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UF37Z	Supplement Aortic Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UF38J	Supplement Aortic Valve created from Truncal Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UF38Z	Supplement Aortic Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UF3JJ	Supplement Aortic Valve created from Truncal Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UF3JZ	Supplement Aortic Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UF3KJ	Supplement Aortic Valve created from Truncal Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UF3KZ	Supplement Aortic Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UF47J	Supplement Aortic Valve created from Truncal Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UF47Z	Supplement Aortic Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UF48J	Supplement Aortic Valve created from Truncal Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UF48Z	Supplement Aortic Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UF4JJ	Supplement Aortic Valve created from Truncal Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UF4JZ	Supplement Aortic Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UF4KJ	Supplement Aortic Valve created from Truncal Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UF4KZ	Supplement Aortic Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UG07E	Supplement Mitral Valve created from Left Atrioventricular Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UG07Z	Supplement Mitral Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UG08E	Supplement Mitral Valve created from Left Atrioventricular Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UG08Z	Supplement Mitral Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UG0JE	Supplement Mitral Valve created from Left Atrioventricular Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02UG0JZ	Supplement Mitral Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UG0KE	Supplement Mitral Valve created from Left Atrioventricular Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UG0KZ	Supplement Mitral Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UG37E	Supplement Mitral Valve created from Left Atrioventricular Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UG37Z	Supplement Mitral Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UG38E	Supplement Mitral Valve created from Left Atrioventricular Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UG38Z	Supplement Mitral Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UG3JE	Supplement Mitral Valve created from Left Atrioventricular Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UG3JH	Supplement Mitral Valve with Synthetic Substitute, Transapical, Percutaneous Approach	PX	ICD-10-PCS
02UG3JZ	Supplement Mitral Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UG3KE	Supplement Mitral Valve created from Left Atrioventricular Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UG3KZ	Supplement Mitral Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UG47E	Supplement Mitral Valve created from Left Atrioventricular Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UG47Z	Supplement Mitral Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UG48E	Supplement Mitral Valve created from Left Atrioventricular Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UG48Z	Supplement Mitral Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UG4JE	Supplement Mitral Valve created from Left Atrioventricular Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UG4JZ	Supplement Mitral Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UG4KE	Supplement Mitral Valve created from Left Atrioventricular Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UG4KZ	Supplement Mitral Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UH07Z	Supplement Pulmonary Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UH08Z	Supplement Pulmonary Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UH0JZ	Supplement Pulmonary Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UH0KZ	Supplement Pulmonary Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UH37Z	Supplement Pulmonary Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02UH38Z	Supplement Pulmonary Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UH3JZ	Supplement Pulmonary Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UH3KZ	Supplement Pulmonary Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UH47Z	Supplement Pulmonary Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UH48Z	Supplement Pulmonary Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UH4JZ	Supplement Pulmonary Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UH4KZ	Supplement Pulmonary Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UJ07G	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UJ07Z	Supplement Tricuspid Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UJ08G	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UJ08Z	Supplement Tricuspid Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UJ0JG	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UJ0JZ	Supplement Tricuspid Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UJ0KG	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UJ0KZ	Supplement Tricuspid Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UJ37G	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UJ37Z	Supplement Tricuspid Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UJ38G	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UJ38Z	Supplement Tricuspid Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UJ3JG	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UJ3JZ	Supplement Tricuspid Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UJ3KG	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UJ3KZ	Supplement Tricuspid Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UJ47G	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UJ47Z	Supplement Tricuspid Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UJ48G	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02UJ48Z	Supplement Tricuspid Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UJ4JG	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UJ4JZ	Supplement Tricuspid Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UJ4KG	Supplement Tricuspid Valve created from Right Atrioventricular Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UJ4KZ	Supplement Tricuspid Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UK07Z	Supplement Right Ventricle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UK08Z	Supplement Right Ventricle with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UK0JZ	Supplement Right Ventricle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UK0KZ	Supplement Right Ventricle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UK37Z	Supplement Right Ventricle with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UK38Z	Supplement Right Ventricle with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UK3JZ	Supplement Right Ventricle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UK3KZ	Supplement Right Ventricle with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UK47Z	Supplement Right Ventricle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UK48Z	Supplement Right Ventricle with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UK4JZ	Supplement Right Ventricle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UK4KZ	Supplement Right Ventricle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UL07Z	Supplement Left Ventricle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UL08Z	Supplement Left Ventricle with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UL0JZ	Supplement Left Ventricle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UL0KZ	Supplement Left Ventricle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UL37Z	Supplement Left Ventricle with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UL38Z	Supplement Left Ventricle with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UL3JZ	Supplement Left Ventricle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UL3KZ	Supplement Left Ventricle with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UL47Z	Supplement Left Ventricle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UL48Z	Supplement Left Ventricle with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02UL4JZ	Supplement Left Ventricle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UL4KZ	Supplement Left Ventricle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UM07Z	Supplement Ventricular Septum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UM08Z	Supplement Ventricular Septum with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UM0JZ	Supplement Ventricular Septum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UM0KZ	Supplement Ventricular Septum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UM37Z	Supplement Ventricular Septum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UM38Z	Supplement Ventricular Septum with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UM3JZ	Supplement Ventricular Septum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UM3KZ	Supplement Ventricular Septum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UM47Z	Supplement Ventricular Septum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UM48Z	Supplement Ventricular Septum with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UM4JZ	Supplement Ventricular Septum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UM4KZ	Supplement Ventricular Septum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UN07Z	Supplement Pericardium with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UN08Z	Supplement Pericardium with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UN0JZ	Supplement Pericardium with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UN0KZ	Supplement Pericardium with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UN37Z	Supplement Pericardium with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UN38Z	Supplement Pericardium with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UN3JZ	Supplement Pericardium with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UN3KZ	Supplement Pericardium with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UN47Z	Supplement Pericardium with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UN48Z	Supplement Pericardium with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UN4JZ	Supplement Pericardium with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UN4KZ	Supplement Pericardium with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UP07Z	Supplement Pulmonary Trunk with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02UP08Z	Supplement Pulmonary Trunk with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UP0JZ	Supplement Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UP0KZ	Supplement Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UP37Z	Supplement Pulmonary Trunk with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UP38Z	Supplement Pulmonary Trunk with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UP3JZ	Supplement Pulmonary Trunk with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UP3KZ	Supplement Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UP47Z	Supplement Pulmonary Trunk with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UP48Z	Supplement Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UP4JZ	Supplement Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UP4KZ	Supplement Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UQ07Z	Supplement Right Pulmonary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UQ08Z	Supplement Right Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UQ0JZ	Supplement Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UQ0KZ	Supplement Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UQ37Z	Supplement Right Pulmonary Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UQ38Z	Supplement Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UQ3JZ	Supplement Right Pulmonary Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UQ3KZ	Supplement Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UQ47Z	Supplement Right Pulmonary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UQ48Z	Supplement Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UQ4JZ	Supplement Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UQ4KZ	Supplement Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UR07Z	Supplement Left Pulmonary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UR08Z	Supplement Left Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UR0JZ	Supplement Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02UR0KZ	Supplement Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UR37Z	Supplement Left Pulmonary Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UR38Z	Supplement Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UR3JZ	Supplement Left Pulmonary Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UR3KZ	Supplement Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UR47Z	Supplement Left Pulmonary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UR48Z	Supplement Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UR4JZ	Supplement Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UR4KZ	Supplement Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02US07Z	Supplement Right Pulmonary Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02US08Z	Supplement Right Pulmonary Vein with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02US0JZ	Supplement Right Pulmonary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02US0KZ	Supplement Right Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02US37Z	Supplement Right Pulmonary Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02US38Z	Supplement Right Pulmonary Vein with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02US3JZ	Supplement Right Pulmonary Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02US3KZ	Supplement Right Pulmonary Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02US47Z	Supplement Right Pulmonary Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02US48Z	Supplement Right Pulmonary Vein with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02US4JZ	Supplement Right Pulmonary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02US4KZ	Supplement Right Pulmonary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UT07Z	Supplement Left Pulmonary Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UT08Z	Supplement Left Pulmonary Vein with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UT0JZ	Supplement Left Pulmonary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02UT0KZ	Supplement Left Pulmonary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UT37Z	Supplement Left Pulmonary Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UT38Z	Supplement Left Pulmonary Vein with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UT3JZ	Supplement Left Pulmonary Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UT3KZ	Supplement Left Pulmonary Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UT47Z	Supplement Left Pulmonary Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UT48Z	Supplement Left Pulmonary Vein with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UT4JZ	Supplement Left Pulmonary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UT4KZ	Supplement Left Pulmonary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UV07Z	Supplement Superior Vena Cava with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UV08Z	Supplement Superior Vena Cava with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UV0JZ	Supplement Superior Vena Cava with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UV0KZ	Supplement Superior Vena Cava with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UV37Z	Supplement Superior Vena Cava with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UV38Z	Supplement Superior Vena Cava with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UV3JZ	Supplement Superior Vena Cava with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UV3KZ	Supplement Superior Vena Cava with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UV47Z	Supplement Superior Vena Cava with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UV48Z	Supplement Superior Vena Cava with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UV4JZ	Supplement Superior Vena Cava with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UV4KZ	Supplement Superior Vena Cava with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UW07Z	Supplement Thoracic Aorta, Descending with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UW08Z	Supplement Thoracic Aorta, Descending with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UW0JZ	Supplement Thoracic Aorta, Descending with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02UW0KZ	Supplement Thoracic Aorta, Descending with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UW37Z	Supplement Thoracic Aorta, Descending with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UW38Z	Supplement Thoracic Aorta, Descending with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UW3JZ	Supplement Thoracic Aorta, Descending with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UW3KZ	Supplement Thoracic Aorta, Descending with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UW47Z	Supplement Thoracic Aorta, Descending with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UW48Z	Supplement Thoracic Aorta, Descending with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UW4JZ	Supplement Thoracic Aorta, Descending with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UW4KZ	Supplement Thoracic Aorta, Descending with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UX07Z	Supplement Thoracic Aorta, Ascending/Arch with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UX08Z	Supplement Thoracic Aorta, Ascending/Arch with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02UX0JZ	Supplement Thoracic Aorta, Ascending/Arch with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02UX0KZ	Supplement Thoracic Aorta, Ascending/Arch with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02UX37Z	Supplement Thoracic Aorta, Ascending/Arch with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UX38Z	Supplement Thoracic Aorta, Ascending/Arch with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02UX3JZ	Supplement Thoracic Aorta, Ascending/Arch with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UX3KZ	Supplement Thoracic Aorta, Ascending/Arch with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02UX47Z	Supplement Thoracic Aorta, Ascending/Arch with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UX48Z	Supplement Thoracic Aorta, Ascending/Arch with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UX4JZ	Supplement Thoracic Aorta, Ascending/Arch with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02UX4KZ	Supplement Thoracic Aorta, Ascending/Arch with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VA0CZ	Restriction of Heart with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02VA0ZZ	Restriction of Heart, Open Approach	PX	ICD-10-PCS
02VA3CZ	Restriction of Heart with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02VA3ZZ	Restriction of Heart, Percutaneous Approach	PX	ICD-10-PCS
02VA4CZ	Restriction of Heart with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VA4ZZ	Restriction of Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VG0ZZ	Restriction of Mitral Valve, Open Approach	PX	ICD-10-PCS
02VG3ZZ	Restriction of Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
02VG4ZZ	Restriction of Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VL0CZ	Restriction of Left Ventricle with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02VL0DZ	Restriction of Left Ventricle with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02VL0ZZ	Restriction of Left Ventricle, Open Approach	PX	ICD-10-PCS
02VL3CZ	Restriction of Left Ventricle with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VL3DZ	Restriction of Left Ventricle with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VL3ZZ	Restriction of Left Ventricle, Percutaneous Approach	PX	ICD-10-PCS
02VL4CZ	Restriction of Left Ventricle with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VL4DZ	Restriction of Left Ventricle with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VL4ZZ	Restriction of Left Ventricle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VP0CZ	Restriction of Pulmonary Trunk with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02VP0DZ	Restriction of Pulmonary Trunk with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02VP0ZZ	Restriction of Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
02VP3CZ	Restriction of Pulmonary Trunk with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VP3DZ	Restriction of Pulmonary Trunk with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VP3ZZ	Restriction of Pulmonary Trunk, Percutaneous Approach	PX	ICD-10-PCS
02VP4CZ	Restriction of Pulmonary Trunk with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VP4DZ	Restriction of Pulmonary Trunk with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VP4ZZ	Restriction of Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VQ0CZ	Restriction of Right Pulmonary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02VQ0DZ	Restriction of Right Pulmonary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02VQ0ZZ	Restriction of Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02VQ3CZ	Restriction of Right Pulmonary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VQ3DZ	Restriction of Right Pulmonary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VQ3ZZ	Restriction of Right Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02VQ4CZ	Restriction of Right Pulmonary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VQ4DZ	Restriction of Right Pulmonary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VQ4ZZ	Restriction of Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VR0CT	Restriction of Ductus Arteriosus with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02VR0CZ	Restriction of Left Pulmonary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02VR0DT	Restriction of Ductus Arteriosus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02VR0DZ	Restriction of Left Pulmonary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02VR0ZT	Restriction of Ductus Arteriosus, Open Approach	PX	ICD-10-PCS
02VR0ZZ	Restriction of Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
02VR3CT	Restriction of Ductus Arteriosus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VR3CZ	Restriction of Left Pulmonary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VR3DT	Restriction of Ductus Arteriosus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VR3DZ	Restriction of Left Pulmonary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VR3ZT	Restriction of Ductus Arteriosus, Percutaneous Approach	PX	ICD-10-PCS
02VR3ZZ	Restriction of Left Pulmonary Artery, Percutaneous Approach	PX	ICD-10-PCS
02VR4CT	Restriction of Ductus Arteriosus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VR4CZ	Restriction of Left Pulmonary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VR4DT	Restriction of Ductus Arteriosus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VR4DZ	Restriction of Left Pulmonary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VR4ZT	Restriction of Ductus Arteriosus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VR4ZZ	Restriction of Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VS0CZ	Restriction of Right Pulmonary Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02VS0DZ	Restriction of Right Pulmonary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02VS0ZZ	Restriction of Right Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02VS3CZ	Restriction of Right Pulmonary Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VS3DZ	Restriction of Right Pulmonary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VS3ZZ	Restriction of Right Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02VS4CZ	Restriction of Right Pulmonary Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VS4DZ	Restriction of Right Pulmonary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VS4ZZ	Restriction of Right Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VT0CZ	Restriction of Left Pulmonary Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02VT0DZ	Restriction of Left Pulmonary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02VT0ZZ	Restriction of Left Pulmonary Vein, Open Approach	PX	ICD-10-PCS
02VT3CZ	Restriction of Left Pulmonary Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VT3DZ	Restriction of Left Pulmonary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02VT3ZZ	Restriction of Left Pulmonary Vein, Percutaneous Approach	PX	ICD-10-PCS
02VT4CZ	Restriction of Left Pulmonary Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VT4DZ	Restriction of Left Pulmonary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VT4ZZ	Restriction of Left Pulmonary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VV0CZ	Restriction of Superior Vena Cava with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02VV0DZ	Restriction of Superior Vena Cava with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02VV0ZZ	Restriction of Superior Vena Cava, Open Approach	PX	ICD-10-PCS
02VV3CZ	Restriction of Superior Vena Cava with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VV3DZ	Restriction of Superior Vena Cava with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VV3ZZ	Restriction of Superior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
02VV4CZ	Restriction of Superior Vena Cava with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VV4DZ	Restriction of Superior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VV4ZZ	Restriction of Superior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VW0CZ	Restriction of Thoracic Aorta, Descending with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02VW0DZ	Restriction of Thoracic Aorta, Descending with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02VW0EZ	Restriction of Thoracic Aorta, Descending with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Open Approach	PX	ICD-10-PCS
02VW0FZ	Restriction of Thoracic Aorta, Descending with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Open Approach	PX	ICD-10-PCS
02VW0ZZ	Restriction of Thoracic Aorta, Descending, Open Approach	PX	ICD-10-PCS
02VW3CZ	Restriction of Thoracic Aorta, Descending with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VW3DZ	Restriction of Thoracic Aorta, Descending with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VW3EZ	Restriction of Thoracic Aorta, Descending with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Approach	PX	ICD-10-PCS
02VW3FZ	Restriction of Thoracic Aorta, Descending with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
02VW3ZZ	Restriction of Thoracic Aorta, Descending, Percutaneous Approach	PX	ICD-10-PCS
02VW4CZ	Restriction of Thoracic Aorta, Descending with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VW4DZ	Restriction of Thoracic Aorta, Descending with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VW4EZ	Restriction of Thoracic Aorta, Descending with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02VW4FZ	Restriction of Thoracic Aorta, Descending with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VW4ZZ	Restriction of Thoracic Aorta, Descending, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VX0CZ	Restriction of Thoracic Aorta, Ascending/Arch with Extraluminal Device, Open Approach	PX	ICD-10-PCS
02VX0DZ	Restriction of Thoracic Aorta, Ascending/Arch with Intraluminal Device, Open Approach	PX	ICD-10-PCS
02VX0EZ	Restriction of Thoracic Aorta, Ascending/Arch with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Open Approach	PX	ICD-10-PCS
02VX0FZ	Restriction of Thoracic Aorta, Ascending/Arch with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Open Approach	PX	ICD-10-PCS
02VX0ZZ	Restriction of Thoracic Aorta, Ascending/Arch, Open Approach	PX	ICD-10-PCS
02VX3CZ	Restriction of Thoracic Aorta, Ascending/Arch with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VX3DZ	Restriction of Thoracic Aorta, Ascending/Arch with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
02VX3EZ	Restriction of Thoracic Aorta, Ascending/Arch with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Approach	PX	ICD-10-PCS
02VX3FZ	Restriction of Thoracic Aorta, Ascending/Arch with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
02VX3ZZ	Restriction of Thoracic Aorta, Ascending/Arch, Percutaneous Approach	PX	ICD-10-PCS
02VX4CZ	Restriction of Thoracic Aorta, Ascending/Arch with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VX4DZ	Restriction of Thoracic Aorta, Ascending/Arch with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VX4EZ	Restriction of Thoracic Aorta, Ascending/Arch with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VX4FZ	Restriction of Thoracic Aorta, Ascending/Arch with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02VX4ZZ	Restriction of Thoracic Aorta, Ascending/Arch, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02W50JZ	Revision of Synthetic Substitute in Atrial Septum, Open Approach	PX	ICD-10-PCS
02W54JZ	Revision of Synthetic Substitute in Atrial Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA02Z	Revision of Monitoring Device in Heart, Open Approach	PX	ICD-10-PCS
02WA03Z	Revision of Infusion Device in Heart, Open Approach	PX	ICD-10-PCS
02WA07Z	Revision of Autologous Tissue Substitute in Heart, Open Approach	PX	ICD-10-PCS
02WA08Z	Revision of Zooplastic Tissue in Heart, Open Approach	PX	ICD-10-PCS
02WA0CZ	Revision of Extraluminal Device in Heart, Open Approach	PX	ICD-10-PCS
02WA0DZ	Revision of Intraluminal Device in Heart, Open Approach	PX	ICD-10-PCS
02WA0JZ	Revision of Synthetic Substitute in Heart, Open Approach	PX	ICD-10-PCS
02WA0KZ	Revision of Nonautologous Tissue Substitute in Heart, Open Approach	PX	ICD-10-PCS
02WA0MZ	Revision of Cardiac Lead in Heart, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02WA0NZ	Revision of Intracardiac Pacemaker in Heart, Open Approach	PX	ICD-10-PCS
02WA0QZ	Revision of Implantable Heart Assist System in Heart, Open Approach	PX	ICD-10-PCS
02WA0RS	Revision of Biventricular Short-term External Heart Assist System in Heart, Open Approach	PX	ICD-10-PCS
02WA0RZ	Revision of Short-term External Heart Assist System in Heart, Open Approach	PX	ICD-10-PCS
02WA0YZ	Revision of Other Device in Heart, Open Approach	PX	ICD-10-PCS
02WA37Z	Revision of Autologous Tissue Substitute in Heart, Percutaneous Approach	PX	ICD-10-PCS
02WA38Z	Revision of Zooplastic Tissue in Heart, Percutaneous Approach	PX	ICD-10-PCS
02WA3CZ	Revision of Extraluminal Device in Heart, Percutaneous Approach	PX	ICD-10-PCS
02WA3JZ	Revision of Synthetic Substitute in Heart, Percutaneous Approach	PX	ICD-10-PCS
02WA3KZ	Revision of Nonautologous Tissue Substitute in Heart, Percutaneous Approach	PX	ICD-10-PCS
02WA3MZ	Revision of Cardiac Lead in Heart, Percutaneous Approach	PX	ICD-10-PCS
02WA3NZ	Revision of Intracardiac Pacemaker in Heart, Percutaneous Approach	PX	ICD-10-PCS
02WA3QZ	Revision of Implantable Heart Assist System in Heart, Percutaneous Approach	PX	ICD-10-PCS
02WA3RS	Revision of Biventricular Short-term External Heart Assist System in Heart, Percutaneous Approach	PX	ICD-10-PCS
02WA3RZ	Revision of Short-term External Heart Assist System in Heart, Percutaneous Approach	PX	ICD-10-PCS
02WA42Z	Revision of Monitoring Device in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA43Z	Revision of Infusion Device in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA47Z	Revision of Autologous Tissue Substitute in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA48Z	Revision of Zooplastic Tissue in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA4CZ	Revision of Extraluminal Device in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA4DZ	Revision of Intraluminal Device in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA4JZ	Revision of Synthetic Substitute in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA4KZ	Revision of Nonautologous Tissue Substitute in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA4MZ	Revision of Cardiac Lead in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA4NZ	Revision of Intracardiac Pacemaker in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA4QZ	Revision of Implantable Heart Assist System in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA4RS	Revision of Biventricular Short-term External Heart Assist System in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA4RZ	Revision of Short-term External Heart Assist System in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WA4YZ	Revision of Other Device in Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WF07Z	Revision of Autologous Tissue Substitute in Aortic Valve, Open Approach	PX	ICD-10-PCS
02WF08Z	Revision of Zooplastic Tissue in Aortic Valve, Open Approach	PX	ICD-10-PCS
02WF0JZ	Revision of Synthetic Substitute in Aortic Valve, Open Approach	PX	ICD-10-PCS
02WF0KZ	Revision of Nonautologous Tissue Substitute in Aortic Valve, Open Approach	PX	ICD-10-PCS
02WF37Z	Revision of Autologous Tissue Substitute in Aortic Valve, Percutaneous Approach	PX	ICD-10-PCS
02WF38Z	Revision of Zooplastic Tissue in Aortic Valve, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02WF3JZ	Revision of Synthetic Substitute in Aortic Valve, Percutaneous Approach	PX	ICD-10-PCS
02WF3KZ	Revision of Nonautologous Tissue Substitute in Aortic Valve, Percutaneous Approach	PX	ICD-10-PCS
02WF47Z	Revision of Autologous Tissue Substitute in Aortic Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WF48Z	Revision of Zooplastic Tissue in Aortic Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WF4JZ	Revision of Synthetic Substitute in Aortic Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WF4KZ	Revision of Nonautologous Tissue Substitute in Aortic Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WG07Z	Revision of Autologous Tissue Substitute in Mitral Valve, Open Approach	PX	ICD-10-PCS
02WG08Z	Revision of Zooplastic Tissue in Mitral Valve, Open Approach	PX	ICD-10-PCS
02WG0JZ	Revision of Synthetic Substitute in Mitral Valve, Open Approach	PX	ICD-10-PCS
02WG0KZ	Revision of Nonautologous Tissue Substitute in Mitral Valve, Open Approach	PX	ICD-10-PCS
02WG37Z	Revision of Autologous Tissue Substitute in Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
02WG38Z	Revision of Zooplastic Tissue in Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
02WG3JZ	Revision of Synthetic Substitute in Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
02WG3KZ	Revision of Nonautologous Tissue Substitute in Mitral Valve, Percutaneous Approach	PX	ICD-10-PCS
02WG47Z	Revision of Autologous Tissue Substitute in Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WG48Z	Revision of Zooplastic Tissue in Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WG4JZ	Revision of Synthetic Substitute in Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WG4KZ	Revision of Nonautologous Tissue Substitute in Mitral Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WH07Z	Revision of Autologous Tissue Substitute in Pulmonary Valve, Open Approach	PX	ICD-10-PCS
02WH08Z	Revision of Zooplastic Tissue in Pulmonary Valve, Open Approach	PX	ICD-10-PCS
02WH0JZ	Revision of Synthetic Substitute in Pulmonary Valve, Open Approach	PX	ICD-10-PCS
02WH0KZ	Revision of Nonautologous Tissue Substitute in Pulmonary Valve, Open Approach	PX	ICD-10-PCS
02WH37Z	Revision of Autologous Tissue Substitute in Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
02WH38Z	Revision of Zooplastic Tissue in Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
02WH3JZ	Revision of Synthetic Substitute in Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
02WH3KZ	Revision of Nonautologous Tissue Substitute in Pulmonary Valve, Percutaneous Approach	PX	ICD-10-PCS
02WH47Z	Revision of Autologous Tissue Substitute in Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WH48Z	Revision of Zooplastic Tissue in Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02WH4JZ	Revision of Synthetic Substitute in Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WH4KZ	Revision of Nonautologous Tissue Substitute in Pulmonary Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WJ07Z	Revision of Autologous Tissue Substitute in Tricuspid Valve, Open Approach	PX	ICD-10-PCS
02WJ08Z	Revision of Zooplastic Tissue in Tricuspid Valve, Open Approach	PX	ICD-10-PCS
02WJ0JZ	Revision of Synthetic Substitute in Tricuspid Valve, Open Approach	PX	ICD-10-PCS
02WJ0KZ	Revision of Nonautologous Tissue Substitute in Tricuspid Valve, Open Approach	PX	ICD-10-PCS
02WJ37Z	Revision of Autologous Tissue Substitute in Tricuspid Valve, Percutaneous Approach	PX	ICD-10-PCS
02WJ38Z	Revision of Zooplastic Tissue in Tricuspid Valve, Percutaneous Approach	PX	ICD-10-PCS
02WJ3JZ	Revision of Synthetic Substitute in Tricuspid Valve, Percutaneous Approach	PX	ICD-10-PCS
02WJ3KZ	Revision of Nonautologous Tissue Substitute in Tricuspid Valve, Percutaneous Approach	PX	ICD-10-PCS
02WJ47Z	Revision of Autologous Tissue Substitute in Tricuspid Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WJ48Z	Revision of Zooplastic Tissue in Tricuspid Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WJ4JZ	Revision of Synthetic Substitute in Tricuspid Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WJ4KZ	Revision of Nonautologous Tissue Substitute in Tricuspid Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WM0JZ	Revision of Synthetic Substitute in Ventricular Septum, Open Approach	PX	ICD-10-PCS
02WM4JZ	Revision of Synthetic Substitute in Ventricular Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WW3RZ	Revision of Short-term External Heart Assist System in Thoracic Aorta, Descending, Percutaneous Approach	PX	ICD-10-PCS
02WY02Z	Revision of Monitoring Device in Great Vessel, Open Approach	PX	ICD-10-PCS
02WY03Z	Revision of Infusion Device in Great Vessel, Open Approach	PX	ICD-10-PCS
02WY07Z	Revision of Autologous Tissue Substitute in Great Vessel, Open Approach	PX	ICD-10-PCS
02WY08Z	Revision of Zooplastic Tissue in Great Vessel, Open Approach	PX	ICD-10-PCS
02WY0CZ	Revision of Extraluminal Device in Great Vessel, Open Approach	PX	ICD-10-PCS
02WY0DZ	Revision of Intraluminal Device in Great Vessel, Open Approach	PX	ICD-10-PCS
02WY0JZ	Revision of Synthetic Substitute in Great Vessel, Open Approach	PX	ICD-10-PCS
02WY0KZ	Revision of Nonautologous Tissue Substitute in Great Vessel, Open Approach	PX	ICD-10-PCS
02WY0YZ	Revision of Other Device in Great Vessel, Open Approach	PX	ICD-10-PCS
02WY37Z	Revision of Autologous Tissue Substitute in Great Vessel, Percutaneous Approach	PX	ICD-10-PCS
02WY38Z	Revision of Zooplastic Tissue in Great Vessel, Percutaneous Approach	PX	ICD-10-PCS
02WY3CZ	Revision of Extraluminal Device in Great Vessel, Percutaneous Approach	PX	ICD-10-PCS
02WY3DZ	Revision of Intraluminal Device in Great Vessel, Percutaneous Approach	PX	ICD-10-PCS
02WY3JZ	Revision of Synthetic Substitute in Great Vessel, Percutaneous Approach	PX	ICD-10-PCS
02WY3KZ	Revision of Nonautologous Tissue Substitute in Great Vessel, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02WY42Z	Revision of Monitoring Device in Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WY43Z	Revision of Infusion Device in Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WY47Z	Revision of Autologous Tissue Substitute in Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WY48Z	Revision of Zooplastic Tissue in Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WY4CZ	Revision of Extraluminal Device in Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WY4DZ	Revision of Intraluminal Device in Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WY4JZ	Revision of Synthetic Substitute in Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WY4KZ	Revision of Nonautologous Tissue Substitute in Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02WY4YZ	Revision of Other Device in Great Vessel, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02YA0Z0	Transplantation of Heart, Allogeneic, Open Approach	PX	ICD-10-PCS
02YA0Z1	Transplantation of Heart, Syngeneic, Open Approach	PX	ICD-10-PCS
02YA0Z2	Transplantation of Heart, Zooplastic, Open Approach	PX	ICD-10-PCS
0312090	Bypass Innominate Artery to Right Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0312091	Bypass Innominate Artery to Left Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0312092	Bypass Innominate Artery to Bilateral Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0312093	Bypass Innominate Artery to Right Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0312094	Bypass Innominate Artery to Left Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0312095	Bypass Innominate Artery to Bilateral Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0312096	Bypass Innominate Artery to Right Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0312097	Bypass Innominate Artery to Left Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0312098	Bypass Innominate Artery to Bilateral Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0312099	Bypass Innominate Artery to Right Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031209B	Bypass Innominate Artery to Left Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031209C	Bypass Innominate Artery to Bilateral Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031209D	Bypass Innominate Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
031209F	Bypass Innominate Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031209J	Bypass Innominate Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031209K	Bypass Innominate Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031209W	Bypass Innominate Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
03120A0	Bypass Innominate Artery to Right Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120A1	Bypass Innominate Artery to Left Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120A2	Bypass Innominate Artery to Bilateral Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120A3	Bypass Innominate Artery to Right Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120A4	Bypass Innominate Artery to Left Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120A5	Bypass Innominate Artery to Bilateral Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120A6	Bypass Innominate Artery to Right Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120A7	Bypass Innominate Artery to Left Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120A8	Bypass Innominate Artery to Bilateral Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120A9	Bypass Innominate Artery to Right Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120AB	Bypass Innominate Artery to Left Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120AC	Bypass Innominate Artery to Bilateral Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120AD	Bypass Innominate Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120AF	Bypass Innominate Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120AJ	Bypass Innominate Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120AK	Bypass Innominate Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120AW	Bypass Innominate Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03120J0	Bypass Innominate Artery to Right Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03120J1	Bypass Innominate Artery to Left Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120J2	Bypass Innominate Artery to Bilateral Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120J3	Bypass Innominate Artery to Right Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120J4	Bypass Innominate Artery to Left Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120J5	Bypass Innominate Artery to Bilateral Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120J6	Bypass Innominate Artery to Right Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120J7	Bypass Innominate Artery to Left Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120J8	Bypass Innominate Artery to Bilateral Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120J9	Bypass Innominate Artery to Right Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120JB	Bypass Innominate Artery to Left Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120JC	Bypass Innominate Artery to Bilateral Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120JD	Bypass Innominate Artery to Upper Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120JF	Bypass Innominate Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120JJ	Bypass Innominate Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120JK	Bypass Innominate Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120JW	Bypass Innominate Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03120K0	Bypass Innominate Artery to Right Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120K1	Bypass Innominate Artery to Left Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120K2	Bypass Innominate Artery to Bilateral Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120K3	Bypass Innominate Artery to Right Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120K4	Bypass Innominate Artery to Left Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120K5	Bypass Innominate Artery to Bilateral Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03120K6	Bypass Innominate Artery to Right Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120K7	Bypass Innominate Artery to Left Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120K8	Bypass Innominate Artery to Bilateral Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120K9	Bypass Innominate Artery to Right Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120KB	Bypass Innominate Artery to Left Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120KC	Bypass Innominate Artery to Bilateral Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120KD	Bypass Innominate Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120KF	Bypass Innominate Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120KJ	Bypass Innominate Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120KK	Bypass Innominate Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120KW	Bypass Innominate Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03120Z0	Bypass Innominate Artery to Right Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03120Z1	Bypass Innominate Artery to Left Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03120Z2	Bypass Innominate Artery to Bilateral Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03120Z3	Bypass Innominate Artery to Right Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03120Z4	Bypass Innominate Artery to Left Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03120Z5	Bypass Innominate Artery to Bilateral Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03120Z6	Bypass Innominate Artery to Right Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03120Z7	Bypass Innominate Artery to Left Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03120Z8	Bypass Innominate Artery to Bilateral Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03120Z9	Bypass Innominate Artery to Right Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03120ZB	Bypass Innominate Artery to Left Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03120ZC	Bypass Innominate Artery to Bilateral Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03120ZD	Bypass Innominate Artery to Upper Arm Vein, Open Approach	PX	ICD-10-PCS
03120ZF	Bypass Innominate Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
03120ZJ	Bypass Innominate Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
03120ZK	Bypass Innominate Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
03120ZW	Bypass Innominate Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
0313090	Bypass Right Subclavian Artery to Right Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0313091	Bypass Right Subclavian Artery to Left Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0313092	Bypass Right Subclavian Artery to Bilateral Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0313093	Bypass Right Subclavian Artery to Right Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0313094	Bypass Right Subclavian Artery to Left Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0313095	Bypass Right Subclavian Artery to Bilateral Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0313096	Bypass Right Subclavian Artery to Right Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0313097	Bypass Right Subclavian Artery to Left Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0313098	Bypass Right Subclavian Artery to Bilateral Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0313099	Bypass Right Subclavian Artery to Right Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031309B	Bypass Right Subclavian Artery to Left Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031309C	Bypass Right Subclavian Artery to Bilateral Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031309D	Bypass Right Subclavian Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031309F	Bypass Right Subclavian Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031309J	Bypass Right Subclavian Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031309K	Bypass Right Subclavian Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031309M	Bypass Right Subclavian Artery to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031309N	Bypass Right Subclavian Artery to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031309W	Bypass Right Subclavian Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
03130A0	Bypass Right Subclavian Artery to Right Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130A1	Bypass Right Subclavian Artery to Left Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130A2	Bypass Right Subclavian Artery to Bilateral Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130A3	Bypass Right Subclavian Artery to Right Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130A4	Bypass Right Subclavian Artery to Left Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130A5	Bypass Right Subclavian Artery to Bilateral Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03130A6	Bypass Right Subclavian Artery to Right Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130A7	Bypass Right Subclavian Artery to Left Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130A8	Bypass Right Subclavian Artery to Bilateral Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130A9	Bypass Right Subclavian Artery to Right Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130AB	Bypass Right Subclavian Artery to Left Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130AC	Bypass Right Subclavian Artery to Bilateral Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130AD	Bypass Right Subclavian Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130AF	Bypass Right Subclavian Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130AJ	Bypass Right Subclavian Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130AK	Bypass Right Subclavian Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130AM	Bypass Right Subclavian Artery to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130AN	Bypass Right Subclavian Artery to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130AW	Bypass Right Subclavian Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03130J0	Bypass Right Subclavian Artery to Right Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130J1	Bypass Right Subclavian Artery to Left Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130J2	Bypass Right Subclavian Artery to Bilateral Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130J3	Bypass Right Subclavian Artery to Right Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130J4	Bypass Right Subclavian Artery to Left Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130J5	Bypass Right Subclavian Artery to Bilateral Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130J6	Bypass Right Subclavian Artery to Right Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130J7	Bypass Right Subclavian Artery to Left Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130J8	Bypass Right Subclavian Artery to Bilateral Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03130J9	Bypass Right Subclavian Artery to Right Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130JB	Bypass Right Subclavian Artery to Left Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130JC	Bypass Right Subclavian Artery to Bilateral Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130JD	Bypass Right Subclavian Artery to Upper Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130JF	Bypass Right Subclavian Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130JJ	Bypass Right Subclavian Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130JK	Bypass Right Subclavian Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130JM	Bypass Right Subclavian Artery to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130JN	Bypass Right Subclavian Artery to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130JW	Bypass Right Subclavian Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03130K0	Bypass Right Subclavian Artery to Right Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130K1	Bypass Right Subclavian Artery to Left Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130K2	Bypass Right Subclavian Artery to Bilateral Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130K3	Bypass Right Subclavian Artery to Right Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130K4	Bypass Right Subclavian Artery to Left Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130K5	Bypass Right Subclavian Artery to Bilateral Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130K6	Bypass Right Subclavian Artery to Right Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130K7	Bypass Right Subclavian Artery to Left Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130K8	Bypass Right Subclavian Artery to Bilateral Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130K9	Bypass Right Subclavian Artery to Right Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130KB	Bypass Right Subclavian Artery to Left Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130KC	Bypass Right Subclavian Artery to Bilateral Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03130KD	Bypass Right Subclavian Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130KF	Bypass Right Subclavian Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130KJ	Bypass Right Subclavian Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130KK	Bypass Right Subclavian Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130KM	Bypass Right Subclavian Artery to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130KN	Bypass Right Subclavian Artery to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130KW	Bypass Right Subclavian Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03130Z0	Bypass Right Subclavian Artery to Right Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03130Z1	Bypass Right Subclavian Artery to Left Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03130Z2	Bypass Right Subclavian Artery to Bilateral Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03130Z3	Bypass Right Subclavian Artery to Right Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03130Z4	Bypass Right Subclavian Artery to Left Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03130Z5	Bypass Right Subclavian Artery to Bilateral Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03130Z6	Bypass Right Subclavian Artery to Right Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03130Z7	Bypass Right Subclavian Artery to Left Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03130Z8	Bypass Right Subclavian Artery to Bilateral Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03130Z9	Bypass Right Subclavian Artery to Right Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03130ZB	Bypass Right Subclavian Artery to Left Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03130ZC	Bypass Right Subclavian Artery to Bilateral Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03130ZD	Bypass Right Subclavian Artery to Upper Arm Vein, Open Approach	PX	ICD-10-PCS
03130ZF	Bypass Right Subclavian Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
03130ZJ	Bypass Right Subclavian Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
03130ZK	Bypass Right Subclavian Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
03130ZM	Bypass Right Subclavian Artery to Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
03130ZN	Bypass Right Subclavian Artery to Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
03130ZW	Bypass Right Subclavian Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
0314090	Bypass Left Subclavian Artery to Right Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0314091	Bypass Left Subclavian Artery to Left Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0314092	Bypass Left Subclavian Artery to Bilateral Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0314093	Bypass Left Subclavian Artery to Right Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0314094	Bypass Left Subclavian Artery to Left Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0314095	Bypass Left Subclavian Artery to Bilateral Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0314096	Bypass Left Subclavian Artery to Right Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0314097	Bypass Left Subclavian Artery to Left Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0314098	Bypass Left Subclavian Artery to Bilateral Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0314099	Bypass Left Subclavian Artery to Right Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031409B	Bypass Left Subclavian Artery to Left Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031409C	Bypass Left Subclavian Artery to Bilateral Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031409D	Bypass Left Subclavian Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031409F	Bypass Left Subclavian Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031409J	Bypass Left Subclavian Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031409K	Bypass Left Subclavian Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031409M	Bypass Left Subclavian Artery to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031409N	Bypass Left Subclavian Artery to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031409W	Bypass Left Subclavian Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
03140A0	Bypass Left Subclavian Artery to Right Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140A1	Bypass Left Subclavian Artery to Left Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140A2	Bypass Left Subclavian Artery to Bilateral Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140A3	Bypass Left Subclavian Artery to Right Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140A4	Bypass Left Subclavian Artery to Left Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140A5	Bypass Left Subclavian Artery to Bilateral Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140A6	Bypass Left Subclavian Artery to Right Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140A7	Bypass Left Subclavian Artery to Left Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140A8	Bypass Left Subclavian Artery to Bilateral Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03140A9	Bypass Left Subclavian Artery to Right Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140AB	Bypass Left Subclavian Artery to Left Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140AC	Bypass Left Subclavian Artery to Bilateral Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140AD	Bypass Left Subclavian Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140AF	Bypass Left Subclavian Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140AJ	Bypass Left Subclavian Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140AK	Bypass Left Subclavian Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140AM	Bypass Left Subclavian Artery to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140AN	Bypass Left Subclavian Artery to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140AW	Bypass Left Subclavian Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03140J0	Bypass Left Subclavian Artery to Right Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140J1	Bypass Left Subclavian Artery to Left Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140J2	Bypass Left Subclavian Artery to Bilateral Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140J3	Bypass Left Subclavian Artery to Right Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140J4	Bypass Left Subclavian Artery to Left Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140J5	Bypass Left Subclavian Artery to Bilateral Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140J6	Bypass Left Subclavian Artery to Right Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140J7	Bypass Left Subclavian Artery to Left Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140J8	Bypass Left Subclavian Artery to Bilateral Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140J9	Bypass Left Subclavian Artery to Right Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140JB	Bypass Left Subclavian Artery to Left Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140JC	Bypass Left Subclavian Artery to Bilateral Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03140JD	Bypass Left Subclavian Artery to Upper Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140JF	Bypass Left Subclavian Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140JJ	Bypass Left Subclavian Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140JK	Bypass Left Subclavian Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140JM	Bypass Left Subclavian Artery to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140JN	Bypass Left Subclavian Artery to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140JW	Bypass Left Subclavian Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03140K0	Bypass Left Subclavian Artery to Right Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140K1	Bypass Left Subclavian Artery to Left Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140K2	Bypass Left Subclavian Artery to Bilateral Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140K3	Bypass Left Subclavian Artery to Right Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140K4	Bypass Left Subclavian Artery to Left Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140K5	Bypass Left Subclavian Artery to Bilateral Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140K6	Bypass Left Subclavian Artery to Right Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140K7	Bypass Left Subclavian Artery to Left Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140K8	Bypass Left Subclavian Artery to Bilateral Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140K9	Bypass Left Subclavian Artery to Right Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140KB	Bypass Left Subclavian Artery to Left Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140KC	Bypass Left Subclavian Artery to Bilateral Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140KD	Bypass Left Subclavian Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140KF	Bypass Left Subclavian Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140KJ	Bypass Left Subclavian Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03140KK	Bypass Left Subclavian Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140KM	Bypass Left Subclavian Artery to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140KN	Bypass Left Subclavian Artery to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140KW	Bypass Left Subclavian Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03140Z0	Bypass Left Subclavian Artery to Right Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03140Z1	Bypass Left Subclavian Artery to Left Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03140Z2	Bypass Left Subclavian Artery to Bilateral Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03140Z3	Bypass Left Subclavian Artery to Right Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03140Z4	Bypass Left Subclavian Artery to Left Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03140Z5	Bypass Left Subclavian Artery to Bilateral Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03140Z6	Bypass Left Subclavian Artery to Right Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03140Z7	Bypass Left Subclavian Artery to Left Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03140Z8	Bypass Left Subclavian Artery to Bilateral Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03140Z9	Bypass Left Subclavian Artery to Right Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03140ZB	Bypass Left Subclavian Artery to Left Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03140ZC	Bypass Left Subclavian Artery to Bilateral Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03140ZD	Bypass Left Subclavian Artery to Upper Arm Vein, Open Approach	PX	ICD-10-PCS
03140ZF	Bypass Left Subclavian Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
03140ZJ	Bypass Left Subclavian Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
03140ZK	Bypass Left Subclavian Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
03140ZM	Bypass Left Subclavian Artery to Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
03140ZN	Bypass Left Subclavian Artery to Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
03140ZW	Bypass Left Subclavian Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
0315090	Bypass Right Axillary Artery to Right Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0315091	Bypass Right Axillary Artery to Left Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0315092	Bypass Right Axillary Artery to Bilateral Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0315093	Bypass Right Axillary Artery to Right Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0315094	Bypass Right Axillary Artery to Left Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0315095	Bypass Right Axillary Artery to Bilateral Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0315096	Bypass Right Axillary Artery to Right Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0315097	Bypass Right Axillary Artery to Left Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0315098	Bypass Right Axillary Artery to Bilateral Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0315099	Bypass Right Axillary Artery to Right Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031509B	Bypass Right Axillary Artery to Left Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031509C	Bypass Right Axillary Artery to Bilateral Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031509D	Bypass Right Axillary Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031509F	Bypass Right Axillary Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031509J	Bypass Right Axillary Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031509K	Bypass Right Axillary Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031509T	Bypass Right Axillary Artery to Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031509V	Bypass Right Axillary Artery to Superior Vena Cava with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031509W	Bypass Right Axillary Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
03150A0	Bypass Right Axillary Artery to Right Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150A1	Bypass Right Axillary Artery to Left Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150A2	Bypass Right Axillary Artery to Bilateral Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150A3	Bypass Right Axillary Artery to Right Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150A4	Bypass Right Axillary Artery to Left Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150A5	Bypass Right Axillary Artery to Bilateral Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150A6	Bypass Right Axillary Artery to Right Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150A7	Bypass Right Axillary Artery to Left Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150A8	Bypass Right Axillary Artery to Bilateral Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150A9	Bypass Right Axillary Artery to Right Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150AB	Bypass Right Axillary Artery to Left Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150AC	Bypass Right Axillary Artery to Bilateral Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03150AD	Bypass Right Axillary Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150AF	Bypass Right Axillary Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150AJ	Bypass Right Axillary Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150AK	Bypass Right Axillary Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150AT	Bypass Right Axillary Artery to Abdominal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150AV	Bypass Right Axillary Artery to Superior Vena Cava with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150AW	Bypass Right Axillary Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03150J0	Bypass Right Axillary Artery to Right Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150J1	Bypass Right Axillary Artery to Left Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150J2	Bypass Right Axillary Artery to Bilateral Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150J3	Bypass Right Axillary Artery to Right Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150J4	Bypass Right Axillary Artery to Left Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150J5	Bypass Right Axillary Artery to Bilateral Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150J6	Bypass Right Axillary Artery to Right Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150J7	Bypass Right Axillary Artery to Left Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150J8	Bypass Right Axillary Artery to Bilateral Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150J9	Bypass Right Axillary Artery to Right Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150JB	Bypass Right Axillary Artery to Left Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150JC	Bypass Right Axillary Artery to Bilateral Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150JD	Bypass Right Axillary Artery to Upper Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150JF	Bypass Right Axillary Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150JJ	Bypass Right Axillary Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03150JK	Bypass Right Axillary Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150JT	Bypass Right Axillary Artery to Abdominal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150JV	Bypass Right Axillary Artery to Superior Vena Cava with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150JW	Bypass Right Axillary Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03150K0	Bypass Right Axillary Artery to Right Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150K1	Bypass Right Axillary Artery to Left Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150K2	Bypass Right Axillary Artery to Bilateral Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150K3	Bypass Right Axillary Artery to Right Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150K4	Bypass Right Axillary Artery to Left Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150K5	Bypass Right Axillary Artery to Bilateral Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150K6	Bypass Right Axillary Artery to Right Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150K7	Bypass Right Axillary Artery to Left Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150K8	Bypass Right Axillary Artery to Bilateral Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150K9	Bypass Right Axillary Artery to Right Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150KB	Bypass Right Axillary Artery to Left Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150KC	Bypass Right Axillary Artery to Bilateral Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150KD	Bypass Right Axillary Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150KF	Bypass Right Axillary Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150KJ	Bypass Right Axillary Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150KK	Bypass Right Axillary Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150KT	Bypass Right Axillary Artery to Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150KV	Bypass Right Axillary Artery to Superior Vena Cava with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03150KW	Bypass Right Axillary Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03150Z0	Bypass Right Axillary Artery to Right Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03150Z1	Bypass Right Axillary Artery to Left Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03150Z2	Bypass Right Axillary Artery to Bilateral Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03150Z3	Bypass Right Axillary Artery to Right Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03150Z4	Bypass Right Axillary Artery to Left Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03150Z5	Bypass Right Axillary Artery to Bilateral Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03150Z6	Bypass Right Axillary Artery to Right Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03150Z7	Bypass Right Axillary Artery to Left Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03150Z8	Bypass Right Axillary Artery to Bilateral Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03150Z9	Bypass Right Axillary Artery to Right Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03150ZB	Bypass Right Axillary Artery to Left Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03150ZC	Bypass Right Axillary Artery to Bilateral Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03150ZD	Bypass Right Axillary Artery to Upper Arm Vein, Open Approach	PX	ICD-10-PCS
03150ZF	Bypass Right Axillary Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
03150ZJ	Bypass Right Axillary Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
03150ZK	Bypass Right Axillary Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
03150ZT	Bypass Right Axillary Artery to Abdominal Artery, Open Approach	PX	ICD-10-PCS
03150ZV	Bypass Right Axillary Artery to Superior Vena Cava, Open Approach	PX	ICD-10-PCS
03150ZW	Bypass Right Axillary Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
0316090	Bypass Left Axillary Artery to Right Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0316091	Bypass Left Axillary Artery to Left Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0316092	Bypass Left Axillary Artery to Bilateral Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0316093	Bypass Left Axillary Artery to Right Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0316094	Bypass Left Axillary Artery to Left Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0316095	Bypass Left Axillary Artery to Bilateral Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0316096	Bypass Left Axillary Artery to Right Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0316097	Bypass Left Axillary Artery to Left Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0316098	Bypass Left Axillary Artery to Bilateral Upper Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0316099	Bypass Left Axillary Artery to Right Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031609B	Bypass Left Axillary Artery to Left Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031609C	Bypass Left Axillary Artery to Bilateral Lower Leg Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
031609D	Bypass Left Axillary Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031609F	Bypass Left Axillary Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031609J	Bypass Left Axillary Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031609K	Bypass Left Axillary Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031609T	Bypass Left Axillary Artery to Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031609V	Bypass Left Axillary Artery to Superior Vena Cava with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031609W	Bypass Left Axillary Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
03160A0	Bypass Left Axillary Artery to Right Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160A1	Bypass Left Axillary Artery to Left Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160A2	Bypass Left Axillary Artery to Bilateral Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160A3	Bypass Left Axillary Artery to Right Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160A4	Bypass Left Axillary Artery to Left Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160A5	Bypass Left Axillary Artery to Bilateral Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160A6	Bypass Left Axillary Artery to Right Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160A7	Bypass Left Axillary Artery to Left Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160A8	Bypass Left Axillary Artery to Bilateral Upper Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160A9	Bypass Left Axillary Artery to Right Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160AB	Bypass Left Axillary Artery to Left Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160AC	Bypass Left Axillary Artery to Bilateral Lower Leg Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160AD	Bypass Left Axillary Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160AF	Bypass Left Axillary Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160AJ	Bypass Left Axillary Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03160AK	Bypass Left Axillary Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160AT	Bypass Left Axillary Artery to Abdominal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160AV	Bypass Left Axillary Artery to Superior Vena Cava with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160AW	Bypass Left Axillary Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03160J0	Bypass Left Axillary Artery to Right Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160J1	Bypass Left Axillary Artery to Left Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160J2	Bypass Left Axillary Artery to Bilateral Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160J3	Bypass Left Axillary Artery to Right Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160J4	Bypass Left Axillary Artery to Left Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160J5	Bypass Left Axillary Artery to Bilateral Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160J6	Bypass Left Axillary Artery to Right Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160J7	Bypass Left Axillary Artery to Left Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160J8	Bypass Left Axillary Artery to Bilateral Upper Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160J9	Bypass Left Axillary Artery to Right Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160JB	Bypass Left Axillary Artery to Left Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160JC	Bypass Left Axillary Artery to Bilateral Lower Leg Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160JD	Bypass Left Axillary Artery to Upper Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160JF	Bypass Left Axillary Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160JJ	Bypass Left Axillary Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160JK	Bypass Left Axillary Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160JT	Bypass Left Axillary Artery to Abdominal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160JV	Bypass Left Axillary Artery to Superior Vena Cava with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03160JW	Bypass Left Axillary Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03160K0	Bypass Left Axillary Artery to Right Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160K1	Bypass Left Axillary Artery to Left Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160K2	Bypass Left Axillary Artery to Bilateral Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160K3	Bypass Left Axillary Artery to Right Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160K4	Bypass Left Axillary Artery to Left Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160K5	Bypass Left Axillary Artery to Bilateral Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160K6	Bypass Left Axillary Artery to Right Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160K7	Bypass Left Axillary Artery to Left Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160K8	Bypass Left Axillary Artery to Bilateral Upper Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160K9	Bypass Left Axillary Artery to Right Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160KB	Bypass Left Axillary Artery to Left Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160KC	Bypass Left Axillary Artery to Bilateral Lower Leg Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160KD	Bypass Left Axillary Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160KF	Bypass Left Axillary Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160KJ	Bypass Left Axillary Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160KK	Bypass Left Axillary Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160KT	Bypass Left Axillary Artery to Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160KV	Bypass Left Axillary Artery to Superior Vena Cava with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160KW	Bypass Left Axillary Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03160Z0	Bypass Left Axillary Artery to Right Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03160Z1	Bypass Left Axillary Artery to Left Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03160Z2	Bypass Left Axillary Artery to Bilateral Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03160Z3	Bypass Left Axillary Artery to Right Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03160Z4	Bypass Left Axillary Artery to Left Lower Arm Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03160Z5	Bypass Left Axillary Artery to Bilateral Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03160Z6	Bypass Left Axillary Artery to Right Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03160Z7	Bypass Left Axillary Artery to Left Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03160Z8	Bypass Left Axillary Artery to Bilateral Upper Leg Artery, Open Approach	PX	ICD-10-PCS
03160Z9	Bypass Left Axillary Artery to Right Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03160ZB	Bypass Left Axillary Artery to Left Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03160ZC	Bypass Left Axillary Artery to Bilateral Lower Leg Artery, Open Approach	PX	ICD-10-PCS
03160ZD	Bypass Left Axillary Artery to Upper Arm Vein, Open Approach	PX	ICD-10-PCS
03160ZF	Bypass Left Axillary Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
03160ZJ	Bypass Left Axillary Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
03160ZK	Bypass Left Axillary Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
03160ZT	Bypass Left Axillary Artery to Abdominal Artery, Open Approach	PX	ICD-10-PCS
03160ZV	Bypass Left Axillary Artery to Superior Vena Cava, Open Approach	PX	ICD-10-PCS
03160ZW	Bypass Left Axillary Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
0317090	Bypass Right Brachial Artery to Right Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0317093	Bypass Right Brachial Artery to Right Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031709D	Bypass Right Brachial Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031709F	Bypass Right Brachial Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031709V	Bypass Right Brachial Artery to Superior Vena Cava with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031709W	Bypass Right Brachial Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
03170A0	Bypass Right Brachial Artery to Right Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03170A3	Bypass Right Brachial Artery to Right Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03170AD	Bypass Right Brachial Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03170AF	Bypass Right Brachial Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03170AV	Bypass Right Brachial Artery to Superior Vena Cava with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03170AW	Bypass Right Brachial Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03170J0	Bypass Right Brachial Artery to Right Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03170J3	Bypass Right Brachial Artery to Right Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03170JD	Bypass Right Brachial Artery to Upper Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03170JF	Bypass Right Brachial Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03170JV	Bypass Right Brachial Artery to Superior Vena Cava with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03170JW	Bypass Right Brachial Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03170K0	Bypass Right Brachial Artery to Right Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03170K3	Bypass Right Brachial Artery to Right Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03170KD	Bypass Right Brachial Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03170KF	Bypass Right Brachial Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03170KV	Bypass Right Brachial Artery to Superior Vena Cava with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03170KW	Bypass Right Brachial Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03170Z0	Bypass Right Brachial Artery to Right Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03170Z3	Bypass Right Brachial Artery to Right Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03170ZD	Bypass Right Brachial Artery to Upper Arm Vein, Open Approach	PX	ICD-10-PCS
03170ZF	Bypass Right Brachial Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
03170ZV	Bypass Right Brachial Artery to Superior Vena Cava, Open Approach	PX	ICD-10-PCS
03170ZW	Bypass Right Brachial Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
03173ZF	Bypass Right Brachial Artery to Lower Arm Vein, Percutaneous Approach	PX	ICD-10-PCS
0318091	Bypass Left Brachial Artery to Left Upper Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0318094	Bypass Left Brachial Artery to Left Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031809D	Bypass Left Brachial Artery to Upper Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031809F	Bypass Left Brachial Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031809V	Bypass Left Brachial Artery to Superior Vena Cava with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031809W	Bypass Left Brachial Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
03180A1	Bypass Left Brachial Artery to Left Upper Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03180A4	Bypass Left Brachial Artery to Left Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03180AD	Bypass Left Brachial Artery to Upper Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03180AF	Bypass Left Brachial Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03180AV	Bypass Left Brachial Artery to Superior Vena Cava with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03180AW	Bypass Left Brachial Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03180J1	Bypass Left Brachial Artery to Left Upper Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03180J4	Bypass Left Brachial Artery to Left Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03180JD	Bypass Left Brachial Artery to Upper Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03180JF	Bypass Left Brachial Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03180JV	Bypass Left Brachial Artery to Superior Vena Cava with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03180JW	Bypass Left Brachial Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03180K1	Bypass Left Brachial Artery to Left Upper Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03180K4	Bypass Left Brachial Artery to Left Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03180KD	Bypass Left Brachial Artery to Upper Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03180KF	Bypass Left Brachial Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03180KV	Bypass Left Brachial Artery to Superior Vena Cava with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03180KW	Bypass Left Brachial Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03180Z1	Bypass Left Brachial Artery to Left Upper Arm Artery, Open Approach	PX	ICD-10-PCS
03180Z4	Bypass Left Brachial Artery to Left Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03180ZD	Bypass Left Brachial Artery to Upper Arm Vein, Open Approach	PX	ICD-10-PCS
03180ZF	Bypass Left Brachial Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
03180ZV	Bypass Left Brachial Artery to Superior Vena Cava, Open Approach	PX	ICD-10-PCS
03180ZW	Bypass Left Brachial Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
03183ZF	Bypass Left Brachial Artery to Lower Arm Vein, Percutaneous Approach	PX	ICD-10-PCS
0319093	Bypass Right Ulnar Artery to Right Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031909F	Bypass Right Ulnar Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
03190A3	Bypass Right Ulnar Artery to Right Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03190AF	Bypass Right Ulnar Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
03190J3	Bypass Right Ulnar Artery to Right Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03190JF	Bypass Right Ulnar Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03190K3	Bypass Right Ulnar Artery to Right Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03190KF	Bypass Right Ulnar Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03190Z3	Bypass Right Ulnar Artery to Right Lower Arm Artery, Open Approach	PX	ICD-10-PCS
03190ZF	Bypass Right Ulnar Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
03193ZF	Bypass Right Ulnar Artery to Lower Arm Vein, Percutaneous Approach	PX	ICD-10-PCS
031A094	Bypass Left Ulnar Artery to Left Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031A09F	Bypass Left Ulnar Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031A0A4	Bypass Left Ulnar Artery to Left Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031A0AF	Bypass Left Ulnar Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031A0J4	Bypass Left Ulnar Artery to Left Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031A0JF	Bypass Left Ulnar Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031A0K4	Bypass Left Ulnar Artery to Left Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031A0KF	Bypass Left Ulnar Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031A0Z4	Bypass Left Ulnar Artery to Left Lower Arm Artery, Open Approach	PX	ICD-10-PCS
031A0ZF	Bypass Left Ulnar Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
031A3ZF	Bypass Left Ulnar Artery to Lower Arm Vein, Percutaneous Approach	PX	ICD-10-PCS
031B093	Bypass Right Radial Artery to Right Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031B09F	Bypass Right Radial Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031B0A3	Bypass Right Radial Artery to Right Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031B0AF	Bypass Right Radial Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031B0J3	Bypass Right Radial Artery to Right Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031B0JF	Bypass Right Radial Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031B0K3	Bypass Right Radial Artery to Right Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031B0KF	Bypass Right Radial Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031B0Z3	Bypass Right Radial Artery to Right Lower Arm Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
031B0ZF	Bypass Right Radial Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
031B3ZF	Bypass Right Radial Artery to Lower Arm Vein, Percutaneous Approach	PX	ICD-10-PCS
031C094	Bypass Left Radial Artery to Left Lower Arm Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031C09F	Bypass Left Radial Artery to Lower Arm Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031C0A4	Bypass Left Radial Artery to Left Lower Arm Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031C0AF	Bypass Left Radial Artery to Lower Arm Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031C0J4	Bypass Left Radial Artery to Left Lower Arm Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031C0JF	Bypass Left Radial Artery to Lower Arm Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031C0K4	Bypass Left Radial Artery to Left Lower Arm Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031C0KF	Bypass Left Radial Artery to Lower Arm Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031C0Z4	Bypass Left Radial Artery to Left Lower Arm Artery, Open Approach	PX	ICD-10-PCS
031C0ZF	Bypass Left Radial Artery to Lower Arm Vein, Open Approach	PX	ICD-10-PCS
031C3ZF	Bypass Left Radial Artery to Lower Arm Vein, Percutaneous Approach	PX	ICD-10-PCS
031G09G	Bypass Intracranial Artery to Intracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031G0AG	Bypass Intracranial Artery to Intracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031G0JG	Bypass Intracranial Artery to Intracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031G0KG	Bypass Intracranial Artery to Intracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031G0ZG	Bypass Intracranial Artery to Intracranial Artery, Open Approach	PX	ICD-10-PCS
031H09G	Bypass Right Common Carotid Artery to Intracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031H09J	Bypass Right Common Carotid Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031H09K	Bypass Right Common Carotid Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031H09Y	Bypass Right Common Carotid Artery to Upper Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031H0AG	Bypass Right Common Carotid Artery to Intracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031H0AJ	Bypass Right Common Carotid Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031H0AK	Bypass Right Common Carotid Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
031H0AY	Bypass Right Common Carotid Artery to Upper Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031H0JG	Bypass Right Common Carotid Artery to Intracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031H0JJ	Bypass Right Common Carotid Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031H0JK	Bypass Right Common Carotid Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031H0JY	Bypass Right Common Carotid Artery to Upper Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031H0KG	Bypass Right Common Carotid Artery to Intracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031H0KJ	Bypass Right Common Carotid Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031H0KK	Bypass Right Common Carotid Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031H0KY	Bypass Right Common Carotid Artery to Upper Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031H0ZG	Bypass Right Common Carotid Artery to Intracranial Artery, Open Approach	PX	ICD-10-PCS
031H0ZJ	Bypass Right Common Carotid Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
031H0ZK	Bypass Right Common Carotid Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
031H0ZY	Bypass Right Common Carotid Artery to Upper Artery, Open Approach	PX	ICD-10-PCS
031J09G	Bypass Left Common Carotid Artery to Intracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031J09J	Bypass Left Common Carotid Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031J09K	Bypass Left Common Carotid Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031J09Y	Bypass Left Common Carotid Artery to Upper Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031J0AG	Bypass Left Common Carotid Artery to Intracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031J0AJ	Bypass Left Common Carotid Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031J0AK	Bypass Left Common Carotid Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031J0AY	Bypass Left Common Carotid Artery to Upper Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031J0JG	Bypass Left Common Carotid Artery to Intracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031J0JJ	Bypass Left Common Carotid Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031J0JK	Bypass Left Common Carotid Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
031J0JY	Bypass Left Common Carotid Artery to Upper Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031J0KG	Bypass Left Common Carotid Artery to Intracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031J0KJ	Bypass Left Common Carotid Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031J0KK	Bypass Left Common Carotid Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031J0KY	Bypass Left Common Carotid Artery to Upper Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031J0ZG	Bypass Left Common Carotid Artery to Intracranial Artery, Open Approach	PX	ICD-10-PCS
031J0ZJ	Bypass Left Common Carotid Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
031J0ZK	Bypass Left Common Carotid Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
031J0ZY	Bypass Left Common Carotid Artery to Upper Artery, Open Approach	PX	ICD-10-PCS
031K09J	Bypass Right Internal Carotid Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031K09K	Bypass Right Internal Carotid Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031K0AJ	Bypass Right Internal Carotid Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031K0AK	Bypass Right Internal Carotid Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031K0JJ	Bypass Right Internal Carotid Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031K0JK	Bypass Right Internal Carotid Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031K0KJ	Bypass Right Internal Carotid Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031K0KK	Bypass Right Internal Carotid Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031K0ZJ	Bypass Right Internal Carotid Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
031K0ZK	Bypass Right Internal Carotid Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
031L09J	Bypass Left Internal Carotid Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031L09K	Bypass Left Internal Carotid Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031L0AJ	Bypass Left Internal Carotid Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031L0AK	Bypass Left Internal Carotid Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031L0JJ	Bypass Left Internal Carotid Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031L0JK	Bypass Left Internal Carotid Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
031L0KJ	Bypass Left Internal Carotid Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031L0KK	Bypass Left Internal Carotid Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031L0ZJ	Bypass Left Internal Carotid Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
031L0ZK	Bypass Left Internal Carotid Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
031M09J	Bypass Right External Carotid Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031M09K	Bypass Right External Carotid Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031M0AJ	Bypass Right External Carotid Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031M0AK	Bypass Right External Carotid Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031M0JJ	Bypass Right External Carotid Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031M0JK	Bypass Right External Carotid Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031M0KJ	Bypass Right External Carotid Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031M0KK	Bypass Right External Carotid Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031M0ZJ	Bypass Right External Carotid Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
031M0ZK	Bypass Right External Carotid Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
031N09J	Bypass Left External Carotid Artery to Right Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031N09K	Bypass Left External Carotid Artery to Left Extracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031N0AJ	Bypass Left External Carotid Artery to Right Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031N0AK	Bypass Left External Carotid Artery to Left Extracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031N0JJ	Bypass Left External Carotid Artery to Right Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031N0JK	Bypass Left External Carotid Artery to Left Extracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031N0KJ	Bypass Left External Carotid Artery to Right Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031N0KK	Bypass Left External Carotid Artery to Left Extracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031N0ZJ	Bypass Left External Carotid Artery to Right Extracranial Artery, Open Approach	PX	ICD-10-PCS
031N0ZK	Bypass Left External Carotid Artery to Left Extracranial Artery, Open Approach	PX	ICD-10-PCS
031S09G	Bypass Right Temporal Artery to Intracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
031S0AG	Bypass Right Temporal Artery to Intracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031S0JG	Bypass Right Temporal Artery to Intracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031S0KG	Bypass Right Temporal Artery to Intracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031S0ZG	Bypass Right Temporal Artery to Intracranial Artery, Open Approach	PX	ICD-10-PCS
031T09G	Bypass Left Temporal Artery to Intracranial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
031T0AG	Bypass Left Temporal Artery to Intracranial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
031T0JG	Bypass Left Temporal Artery to Intracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
031T0KG	Bypass Left Temporal Artery to Intracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
031T0ZG	Bypass Left Temporal Artery to Intracranial Artery, Open Approach	PX	ICD-10-PCS
03500ZZ	Destruction of Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03503ZZ	Destruction of Right Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03504ZZ	Destruction of Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03510ZZ	Destruction of Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03513ZZ	Destruction of Left Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03514ZZ	Destruction of Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03520ZZ	Destruction of Innominate Artery, Open Approach	PX	ICD-10-PCS
03523ZZ	Destruction of Innominate Artery, Percutaneous Approach	PX	ICD-10-PCS
03524ZZ	Destruction of Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03530ZZ	Destruction of Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
03533ZZ	Destruction of Right Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03534ZZ	Destruction of Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03540ZZ	Destruction of Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
03543ZZ	Destruction of Left Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03544ZZ	Destruction of Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03550ZZ	Destruction of Right Axillary Artery, Open Approach	PX	ICD-10-PCS
03553ZZ	Destruction of Right Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03554ZZ	Destruction of Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03560ZZ	Destruction of Left Axillary Artery, Open Approach	PX	ICD-10-PCS
03563ZZ	Destruction of Left Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03564ZZ	Destruction of Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03570ZZ	Destruction of Right Brachial Artery, Open Approach	PX	ICD-10-PCS
03573ZZ	Destruction of Right Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03574ZZ	Destruction of Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03580ZZ	Destruction of Left Brachial Artery, Open Approach	PX	ICD-10-PCS
03583ZZ	Destruction of Left Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03584ZZ	Destruction of Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03590ZZ	Destruction of Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
03593ZZ	Destruction of Right Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03594ZZ	Destruction of Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035A0ZZ	Destruction of Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
035A3ZZ	Destruction of Left Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
035A4ZZ	Destruction of Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035B0ZZ	Destruction of Right Radial Artery, Open Approach	PX	ICD-10-PCS
035B3ZZ	Destruction of Right Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
035B4ZZ	Destruction of Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035C0ZZ	Destruction of Left Radial Artery, Open Approach	PX	ICD-10-PCS
035C3ZZ	Destruction of Left Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
035C4ZZ	Destruction of Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035D0ZZ	Destruction of Right Hand Artery, Open Approach	PX	ICD-10-PCS
035D3ZZ	Destruction of Right Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
035D4ZZ	Destruction of Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035F0ZZ	Destruction of Left Hand Artery, Open Approach	PX	ICD-10-PCS
035F3ZZ	Destruction of Left Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
035F4ZZ	Destruction of Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035G0ZZ	Destruction of Intracranial Artery, Open Approach	PX	ICD-10-PCS
035G3ZZ	Destruction of Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS
035G4ZZ	Destruction of Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035H0ZZ	Destruction of Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS
035H3ZZ	Destruction of Right Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
035H4ZZ	Destruction of Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035J0ZZ	Destruction of Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
035J3ZZ	Destruction of Left Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
035J4ZZ	Destruction of Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035K0ZZ	Destruction of Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
035K3ZZ	Destruction of Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
035K4ZZ	Destruction of Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035L0ZZ	Destruction of Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
035L3ZZ	Destruction of Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
035L4ZZ	Destruction of Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035M0ZZ	Destruction of Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
035M3ZZ	Destruction of Right External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
035M4ZZ	Destruction of Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035N0ZZ	Destruction of Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
035N3ZZ	Destruction of Left External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
035N4ZZ	Destruction of Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035P0ZZ	Destruction of Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
035P3ZZ	Destruction of Right Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
035P4ZZ	Destruction of Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035Q0ZZ	Destruction of Left Vertebral Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
035Q3ZZ	Destruction of Left Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
035Q4ZZ	Destruction of Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035R0ZZ	Destruction of Face Artery, Open Approach	PX	ICD-10-PCS
035R3ZZ	Destruction of Face Artery, Percutaneous Approach	PX	ICD-10-PCS
035R4ZZ	Destruction of Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035S0ZZ	Destruction of Right Temporal Artery, Open Approach	PX	ICD-10-PCS
035S3ZZ	Destruction of Right Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
035S4ZZ	Destruction of Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035T0ZZ	Destruction of Left Temporal Artery, Open Approach	PX	ICD-10-PCS
035T3ZZ	Destruction of Left Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
035T4ZZ	Destruction of Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035U0ZZ	Destruction of Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
035U3ZZ	Destruction of Right Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
035U4ZZ	Destruction of Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035V0ZZ	Destruction of Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
035V3ZZ	Destruction of Left Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
035V4ZZ	Destruction of Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
035Y0ZZ	Destruction of Upper Artery, Open Approach	PX	ICD-10-PCS
035Y3ZZ	Destruction of Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
035Y4ZZ	Destruction of Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0370046	Dilation of Right Internal Mammary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037004Z	Dilation of Right Internal Mammary Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0370056	Dilation of Right Internal Mammary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037005Z	Dilation of Right Internal Mammary Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0370066	Dilation of Right Internal Mammary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037006Z	Dilation of Right Internal Mammary Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0370076	Dilation of Right Internal Mammary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037007Z	Dilation of Right Internal Mammary Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03700D1	Dilation of Right Internal Mammary Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03700D6	Dilation of Right Internal Mammary Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03700DZ	Dilation of Right Internal Mammary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03700E6	Dilation of Right Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03700EZ	Dilation of Right Internal Mammary Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03700F6	Dilation of Right Internal Mammary Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03700FZ	Dilation of Right Internal Mammary Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03700G6	Dilation of Right Internal Mammary Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03700GZ	Dilation of Right Internal Mammary Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03700Z1	Dilation of Right Internal Mammary Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03700Z6	Dilation of Right Internal Mammary Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03700ZZ	Dilation of Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
0370346	Dilation of Right Internal Mammary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037034Z	Dilation of Right Internal Mammary Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0370356	Dilation of Right Internal Mammary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037035Z	Dilation of Right Internal Mammary Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0370366	Dilation of Right Internal Mammary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037036Z	Dilation of Right Internal Mammary Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0370376	Dilation of Right Internal Mammary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037037Z	Dilation of Right Internal Mammary Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03703D1	Dilation of Right Internal Mammary Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03703D6	Dilation of Right Internal Mammary Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03703DZ	Dilation of Right Internal Mammary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03703E6	Dilation of Right Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03703EZ	Dilation of Right Internal Mammary Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03703F6	Dilation of Right Internal Mammary Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03703FZ	Dilation of Right Internal Mammary Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03703G6	Dilation of Right Internal Mammary Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03703GZ	Dilation of Right Internal Mammary Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03703Z1	Dilation of Right Internal Mammary Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03703Z6	Dilation of Right Internal Mammary Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03703ZZ	Dilation of Right Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
0370446	Dilation of Right Internal Mammary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037044Z	Dilation of Right Internal Mammary Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0370456	Dilation of Right Internal Mammary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037045Z	Dilation of Right Internal Mammary Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0370466	Dilation of Right Internal Mammary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037046Z	Dilation of Right Internal Mammary Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0370476	Dilation of Right Internal Mammary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037047Z	Dilation of Right Internal Mammary Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704D1	Dilation of Right Internal Mammary Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704D6	Dilation of Right Internal Mammary Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704DZ	Dilation of Right Internal Mammary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704E6	Dilation of Right Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704EZ	Dilation of Right Internal Mammary Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704F6	Dilation of Right Internal Mammary Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704FZ	Dilation of Right Internal Mammary Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704G6	Dilation of Right Internal Mammary Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704GZ	Dilation of Right Internal Mammary Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704Z1	Dilation of Right Internal Mammary Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03704Z6	Dilation of Right Internal Mammary Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03704ZZ	Dilation of Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0371046	Dilation of Left Internal Mammary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037104Z	Dilation of Left Internal Mammary Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0371056	Dilation of Left Internal Mammary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037105Z	Dilation of Left Internal Mammary Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0371066	Dilation of Left Internal Mammary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037106Z	Dilation of Left Internal Mammary Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0371076	Dilation of Left Internal Mammary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037107Z	Dilation of Left Internal Mammary Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03710D1	Dilation of Left Internal Mammary Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03710D6	Dilation of Left Internal Mammary Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03710DZ	Dilation of Left Internal Mammary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03710E6	Dilation of Left Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03710EZ	Dilation of Left Internal Mammary Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03710F6	Dilation of Left Internal Mammary Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03710FZ	Dilation of Left Internal Mammary Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03710G6	Dilation of Left Internal Mammary Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03710GZ	Dilation of Left Internal Mammary Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03710Z1	Dilation of Left Internal Mammary Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03710Z6	Dilation of Left Internal Mammary Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03710ZZ	Dilation of Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
0371346	Dilation of Left Internal Mammary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037134Z	Dilation of Left Internal Mammary Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0371356	Dilation of Left Internal Mammary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037135Z	Dilation of Left Internal Mammary Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0371366	Dilation of Left Internal Mammary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037136Z	Dilation of Left Internal Mammary Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0371376	Dilation of Left Internal Mammary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037137Z	Dilation of Left Internal Mammary Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03713D1	Dilation of Left Internal Mammary Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03713D6	Dilation of Left Internal Mammary Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03713DZ	Dilation of Left Internal Mammary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03713E6	Dilation of Left Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03713EZ	Dilation of Left Internal Mammary Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03713F6	Dilation of Left Internal Mammary Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03713FZ	Dilation of Left Internal Mammary Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03713G6	Dilation of Left Internal Mammary Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03713GZ	Dilation of Left Internal Mammary Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03713Z1	Dilation of Left Internal Mammary Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03713Z6	Dilation of Left Internal Mammary Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03713ZZ	Dilation of Left Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
0371446	Dilation of Left Internal Mammary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037144Z	Dilation of Left Internal Mammary Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0371456	Dilation of Left Internal Mammary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037145Z	Dilation of Left Internal Mammary Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0371466	Dilation of Left Internal Mammary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037146Z	Dilation of Left Internal Mammary Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0371476	Dilation of Left Internal Mammary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037147Z	Dilation of Left Internal Mammary Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714D1	Dilation of Left Internal Mammary Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714D6	Dilation of Left Internal Mammary Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714DZ	Dilation of Left Internal Mammary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714E6	Dilation of Left Internal Mammary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714EZ	Dilation of Left Internal Mammary Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714F6	Dilation of Left Internal Mammary Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714FZ	Dilation of Left Internal Mammary Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714G6	Dilation of Left Internal Mammary Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714GZ	Dilation of Left Internal Mammary Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714Z1	Dilation of Left Internal Mammary Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714Z6	Dilation of Left Internal Mammary Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03714ZZ	Dilation of Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0372046	Dilation of Innominate Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037204Z	Dilation of Innominate Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0372056	Dilation of Innominate Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037205Z	Dilation of Innominate Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0372066	Dilation of Innominate Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037206Z	Dilation of Innominate Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0372076	Dilation of Innominate Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037207Z	Dilation of Innominate Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03720D1	Dilation of Innominate Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03720D6	Dilation of Innominate Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03720DZ	Dilation of Innominate Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03720E6	Dilation of Innominate Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03720EZ	Dilation of Innominate Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03720F6	Dilation of Innominate Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03720FZ	Dilation of Innominate Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03720G6	Dilation of Innominate Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03720GZ	Dilation of Innominate Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03720Z1	Dilation of Innominate Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03720Z6	Dilation of Innominate Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03720ZZ	Dilation of Innominate Artery, Open Approach	PX	ICD-10-PCS
0372346	Dilation of Innominate Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037234Z	Dilation of Innominate Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0372356	Dilation of Innominate Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037235Z	Dilation of Innominate Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0372366	Dilation of Innominate Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037236Z	Dilation of Innominate Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0372376	Dilation of Innominate Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037237Z	Dilation of Innominate Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03723D1	Dilation of Innominate Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03723D6	Dilation of Innominate Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03723DZ	Dilation of Innominate Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03723E6	Dilation of Innominate Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03723EZ	Dilation of Innominate Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03723F6	Dilation of Innominate Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03723FZ	Dilation of Innominate Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03723G6	Dilation of Innominate Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03723GZ	Dilation of Innominate Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03723Z1	Dilation of Innominate Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03723Z6	Dilation of Innominate Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03723ZZ	Dilation of Innominate Artery, Percutaneous Approach	PX	ICD-10-PCS
0372446	Dilation of Innominate Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037244Z	Dilation of Innominate Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0372456	Dilation of Innominate Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037245Z	Dilation of Innominate Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0372466	Dilation of Innominate Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037246Z	Dilation of Innominate Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0372476	Dilation of Innominate Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037247Z	Dilation of Innominate Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724D1	Dilation of Innominate Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724D6	Dilation of Innominate Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724DZ	Dilation of Innominate Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724E6	Dilation of Innominate Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724EZ	Dilation of Innominate Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724F6	Dilation of Innominate Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724FZ	Dilation of Innominate Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724G6	Dilation of Innominate Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724GZ	Dilation of Innominate Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03724Z1	Dilation of Innominate Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724Z6	Dilation of Innominate Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03724ZZ	Dilation of Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0373046	Dilation of Right Subclavian Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037304Z	Dilation of Right Subclavian Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0373056	Dilation of Right Subclavian Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037305Z	Dilation of Right Subclavian Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0373066	Dilation of Right Subclavian Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037306Z	Dilation of Right Subclavian Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0373076	Dilation of Right Subclavian Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037307Z	Dilation of Right Subclavian Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03730D1	Dilation of Right Subclavian Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03730D6	Dilation of Right Subclavian Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03730DZ	Dilation of Right Subclavian Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03730E6	Dilation of Right Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03730EZ	Dilation of Right Subclavian Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03730F6	Dilation of Right Subclavian Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03730FZ	Dilation of Right Subclavian Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03730G6	Dilation of Right Subclavian Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03730GZ	Dilation of Right Subclavian Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03730Z1	Dilation of Right Subclavian Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03730Z6	Dilation of Right Subclavian Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03730ZZ	Dilation of Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
0373346	Dilation of Right Subclavian Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037334Z	Dilation of Right Subclavian Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0373356	Dilation of Right Subclavian Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037335Z	Dilation of Right Subclavian Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0373366	Dilation of Right Subclavian Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037336Z	Dilation of Right Subclavian Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0373376	Dilation of Right Subclavian Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037337Z	Dilation of Right Subclavian Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03733D1	Dilation of Right Subclavian Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03733D6	Dilation of Right Subclavian Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03733DZ	Dilation of Right Subclavian Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03733E6	Dilation of Right Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03733EZ	Dilation of Right Subclavian Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03733F6	Dilation of Right Subclavian Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03733FZ	Dilation of Right Subclavian Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03733G6	Dilation of Right Subclavian Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03733GZ	Dilation of Right Subclavian Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03733Z1	Dilation of Right Subclavian Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03733Z6	Dilation of Right Subclavian Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03733ZZ	Dilation of Right Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
0373446	Dilation of Right Subclavian Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037344Z	Dilation of Right Subclavian Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0373456	Dilation of Right Subclavian Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037345Z	Dilation of Right Subclavian Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0373466	Dilation of Right Subclavian Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037346Z	Dilation of Right Subclavian Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0373476	Dilation of Right Subclavian Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037347Z	Dilation of Right Subclavian Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734D1	Dilation of Right Subclavian Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734D6	Dilation of Right Subclavian Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734DZ	Dilation of Right Subclavian Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734E6	Dilation of Right Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734EZ	Dilation of Right Subclavian Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734F6	Dilation of Right Subclavian Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734FZ	Dilation of Right Subclavian Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734G6	Dilation of Right Subclavian Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734GZ	Dilation of Right Subclavian Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734Z1	Dilation of Right Subclavian Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734Z6	Dilation of Right Subclavian Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03734ZZ	Dilation of Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0374046	Dilation of Left Subclavian Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037404Z	Dilation of Left Subclavian Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0374056	Dilation of Left Subclavian Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037405Z	Dilation of Left Subclavian Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0374066	Dilation of Left Subclavian Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037406Z	Dilation of Left Subclavian Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0374076	Dilation of Left Subclavian Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037407Z	Dilation of Left Subclavian Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03740D1	Dilation of Left Subclavian Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03740D6	Dilation of Left Subclavian Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03740DZ	Dilation of Left Subclavian Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03740E6	Dilation of Left Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03740EZ	Dilation of Left Subclavian Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03740F6	Dilation of Left Subclavian Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03740FZ	Dilation of Left Subclavian Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03740G6	Dilation of Left Subclavian Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03740GZ	Dilation of Left Subclavian Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03740Z1	Dilation of Left Subclavian Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03740Z6	Dilation of Left Subclavian Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03740ZZ	Dilation of Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
0374346	Dilation of Left Subclavian Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037434Z	Dilation of Left Subclavian Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0374356	Dilation of Left Subclavian Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037435Z	Dilation of Left Subclavian Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0374366	Dilation of Left Subclavian Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037436Z	Dilation of Left Subclavian Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0374376	Dilation of Left Subclavian Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037437Z	Dilation of Left Subclavian Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03743D1	Dilation of Left Subclavian Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03743D6	Dilation of Left Subclavian Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03743DZ	Dilation of Left Subclavian Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03743E6	Dilation of Left Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03743EZ	Dilation of Left Subclavian Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03743F6	Dilation of Left Subclavian Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03743FZ	Dilation of Left Subclavian Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03743G6	Dilation of Left Subclavian Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03743GZ	Dilation of Left Subclavian Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03743Z1	Dilation of Left Subclavian Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03743Z6	Dilation of Left Subclavian Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03743ZZ	Dilation of Left Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
0374446	Dilation of Left Subclavian Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037444Z	Dilation of Left Subclavian Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0374456	Dilation of Left Subclavian Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037445Z	Dilation of Left Subclavian Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0374466	Dilation of Left Subclavian Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037446Z	Dilation of Left Subclavian Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0374476	Dilation of Left Subclavian Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037447Z	Dilation of Left Subclavian Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744D1	Dilation of Left Subclavian Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744D6	Dilation of Left Subclavian Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744DZ	Dilation of Left Subclavian Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744E6	Dilation of Left Subclavian Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744EZ	Dilation of Left Subclavian Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744F6	Dilation of Left Subclavian Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744FZ	Dilation of Left Subclavian Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03744G6	Dilation of Left Subclavian Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744GZ	Dilation of Left Subclavian Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744Z1	Dilation of Left Subclavian Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744Z6	Dilation of Left Subclavian Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03744ZZ	Dilation of Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0375046	Dilation of Right Axillary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037504Z	Dilation of Right Axillary Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0375056	Dilation of Right Axillary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037505Z	Dilation of Right Axillary Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0375066	Dilation of Right Axillary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037506Z	Dilation of Right Axillary Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0375076	Dilation of Right Axillary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037507Z	Dilation of Right Axillary Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03750D1	Dilation of Right Axillary Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03750D6	Dilation of Right Axillary Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03750DZ	Dilation of Right Axillary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03750E6	Dilation of Right Axillary Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03750EZ	Dilation of Right Axillary Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03750F6	Dilation of Right Axillary Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03750FZ	Dilation of Right Axillary Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03750G6	Dilation of Right Axillary Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03750GZ	Dilation of Right Axillary Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03750Z1	Dilation of Right Axillary Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03750Z6	Dilation of Right Axillary Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03750ZZ	Dilation of Right Axillary Artery, Open Approach	PX	ICD-10-PCS
0375346	Dilation of Right Axillary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037534Z	Dilation of Right Axillary Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0375356	Dilation of Right Axillary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037535Z	Dilation of Right Axillary Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0375366	Dilation of Right Axillary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037536Z	Dilation of Right Axillary Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0375376	Dilation of Right Axillary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037537Z	Dilation of Right Axillary Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03753D1	Dilation of Right Axillary Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03753D6	Dilation of Right Axillary Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03753DZ	Dilation of Right Axillary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03753E6	Dilation of Right Axillary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03753EZ	Dilation of Right Axillary Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03753F6	Dilation of Right Axillary Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03753FZ	Dilation of Right Axillary Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03753G6	Dilation of Right Axillary Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03753GZ	Dilation of Right Axillary Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03753Z1	Dilation of Right Axillary Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03753Z6	Dilation of Right Axillary Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03753ZZ	Dilation of Right Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
0375446	Dilation of Right Axillary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037544Z	Dilation of Right Axillary Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0375456	Dilation of Right Axillary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037545Z	Dilation of Right Axillary Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0375466	Dilation of Right Axillary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037546Z	Dilation of Right Axillary Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0375476	Dilation of Right Axillary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037547Z	Dilation of Right Axillary Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754D1	Dilation of Right Axillary Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754D6	Dilation of Right Axillary Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754DZ	Dilation of Right Axillary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754E6	Dilation of Right Axillary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754EZ	Dilation of Right Axillary Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754F6	Dilation of Right Axillary Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754FZ	Dilation of Right Axillary Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754G6	Dilation of Right Axillary Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754GZ	Dilation of Right Axillary Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754Z1	Dilation of Right Axillary Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754Z6	Dilation of Right Axillary Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03754ZZ	Dilation of Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0376046	Dilation of Left Axillary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037604Z	Dilation of Left Axillary Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0376056	Dilation of Left Axillary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037605Z	Dilation of Left Axillary Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0376066	Dilation of Left Axillary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037606Z	Dilation of Left Axillary Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0376076	Dilation of Left Axillary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037607Z	Dilation of Left Axillary Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03760D1	Dilation of Left Axillary Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03760D6	Dilation of Left Axillary Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03760DZ	Dilation of Left Axillary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03760E6	Dilation of Left Axillary Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03760EZ	Dilation of Left Axillary Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03760F6	Dilation of Left Axillary Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03760FZ	Dilation of Left Axillary Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03760G6	Dilation of Left Axillary Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03760GZ	Dilation of Left Axillary Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03760Z1	Dilation of Left Axillary Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03760Z6	Dilation of Left Axillary Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03760ZZ	Dilation of Left Axillary Artery, Open Approach	PX	ICD-10-PCS
0376346	Dilation of Left Axillary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037634Z	Dilation of Left Axillary Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0376356	Dilation of Left Axillary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037635Z	Dilation of Left Axillary Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0376366	Dilation of Left Axillary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037636Z	Dilation of Left Axillary Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0376376	Dilation of Left Axillary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037637Z	Dilation of Left Axillary Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03763D1	Dilation of Left Axillary Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03763D6	Dilation of Left Axillary Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03763DZ	Dilation of Left Axillary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03763E6	Dilation of Left Axillary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03763EZ	Dilation of Left Axillary Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03763F6	Dilation of Left Axillary Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03763FZ	Dilation of Left Axillary Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03763G6	Dilation of Left Axillary Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03763GZ	Dilation of Left Axillary Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03763Z1	Dilation of Left Axillary Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03763Z6	Dilation of Left Axillary Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03763ZZ	Dilation of Left Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
0376446	Dilation of Left Axillary Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037644Z	Dilation of Left Axillary Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0376456	Dilation of Left Axillary Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037645Z	Dilation of Left Axillary Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0376466	Dilation of Left Axillary Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037646Z	Dilation of Left Axillary Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0376476	Dilation of Left Axillary Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037647Z	Dilation of Left Axillary Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764D1	Dilation of Left Axillary Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764D6	Dilation of Left Axillary Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764DZ	Dilation of Left Axillary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764E6	Dilation of Left Axillary Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764EZ	Dilation of Left Axillary Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764F6	Dilation of Left Axillary Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764FZ	Dilation of Left Axillary Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764G6	Dilation of Left Axillary Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03764GZ	Dilation of Left Axillary Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764Z1	Dilation of Left Axillary Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764Z6	Dilation of Left Axillary Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03764ZZ	Dilation of Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0377046	Dilation of Right Brachial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037704Z	Dilation of Right Brachial Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0377056	Dilation of Right Brachial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037705Z	Dilation of Right Brachial Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0377066	Dilation of Right Brachial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037706Z	Dilation of Right Brachial Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0377076	Dilation of Right Brachial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037707Z	Dilation of Right Brachial Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03770D1	Dilation of Right Brachial Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03770D6	Dilation of Right Brachial Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03770DZ	Dilation of Right Brachial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03770E6	Dilation of Right Brachial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03770EZ	Dilation of Right Brachial Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03770F6	Dilation of Right Brachial Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03770FZ	Dilation of Right Brachial Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03770G6	Dilation of Right Brachial Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03770GZ	Dilation of Right Brachial Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03770Z1	Dilation of Right Brachial Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03770Z6	Dilation of Right Brachial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03770ZZ	Dilation of Right Brachial Artery, Open Approach	PX	ICD-10-PCS
0377346	Dilation of Right Brachial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037734Z	Dilation of Right Brachial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0377356	Dilation of Right Brachial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037735Z	Dilation of Right Brachial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0377366	Dilation of Right Brachial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037736Z	Dilation of Right Brachial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0377376	Dilation of Right Brachial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037737Z	Dilation of Right Brachial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03773D1	Dilation of Right Brachial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03773D6	Dilation of Right Brachial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03773DZ	Dilation of Right Brachial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03773E6	Dilation of Right Brachial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03773EZ	Dilation of Right Brachial Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03773F6	Dilation of Right Brachial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03773FZ	Dilation of Right Brachial Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03773G6	Dilation of Right Brachial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03773GZ	Dilation of Right Brachial Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03773Z1	Dilation of Right Brachial Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03773Z6	Dilation of Right Brachial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03773ZZ	Dilation of Right Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
0377446	Dilation of Right Brachial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037744Z	Dilation of Right Brachial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0377456	Dilation of Right Brachial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037745Z	Dilation of Right Brachial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0377466	Dilation of Right Brachial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037746Z	Dilation of Right Brachial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0377476	Dilation of Right Brachial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037747Z	Dilation of Right Brachial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774D1	Dilation of Right Brachial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774D6	Dilation of Right Brachial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774DZ	Dilation of Right Brachial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774E6	Dilation of Right Brachial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774EZ	Dilation of Right Brachial Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774F6	Dilation of Right Brachial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774FZ	Dilation of Right Brachial Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774G6	Dilation of Right Brachial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774GZ	Dilation of Right Brachial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774Z1	Dilation of Right Brachial Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774Z6	Dilation of Right Brachial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03774ZZ	Dilation of Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0378046	Dilation of Left Brachial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037804Z	Dilation of Left Brachial Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0378056	Dilation of Left Brachial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037805Z	Dilation of Left Brachial Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0378066	Dilation of Left Brachial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037806Z	Dilation of Left Brachial Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0378076	Dilation of Left Brachial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037807Z	Dilation of Left Brachial Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03780D1	Dilation of Left Brachial Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03780D6	Dilation of Left Brachial Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03780DZ	Dilation of Left Brachial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03780E6	Dilation of Left Brachial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03780EZ	Dilation of Left Brachial Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03780F6	Dilation of Left Brachial Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03780FZ	Dilation of Left Brachial Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03780G6	Dilation of Left Brachial Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03780GZ	Dilation of Left Brachial Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03780Z1	Dilation of Left Brachial Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03780Z6	Dilation of Left Brachial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03780ZZ	Dilation of Left Brachial Artery, Open Approach	PX	ICD-10-PCS
0378346	Dilation of Left Brachial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037834Z	Dilation of Left Brachial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0378356	Dilation of Left Brachial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037835Z	Dilation of Left Brachial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0378366	Dilation of Left Brachial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037836Z	Dilation of Left Brachial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0378376	Dilation of Left Brachial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037837Z	Dilation of Left Brachial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03783D1	Dilation of Left Brachial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03783D6	Dilation of Left Brachial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03783DZ	Dilation of Left Brachial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03783E6	Dilation of Left Brachial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03783EZ	Dilation of Left Brachial Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03783F6	Dilation of Left Brachial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03783FZ	Dilation of Left Brachial Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03783G6	Dilation of Left Brachial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03783GZ	Dilation of Left Brachial Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03783Z1	Dilation of Left Brachial Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03783Z6	Dilation of Left Brachial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03783ZZ	Dilation of Left Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
0378446	Dilation of Left Brachial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037844Z	Dilation of Left Brachial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0378456	Dilation of Left Brachial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037845Z	Dilation of Left Brachial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0378466	Dilation of Left Brachial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037846Z	Dilation of Left Brachial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0378476	Dilation of Left Brachial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037847Z	Dilation of Left Brachial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784D1	Dilation of Left Brachial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784D6	Dilation of Left Brachial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784DZ	Dilation of Left Brachial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784E6	Dilation of Left Brachial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784EZ	Dilation of Left Brachial Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784F6	Dilation of Left Brachial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784FZ	Dilation of Left Brachial Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784G6	Dilation of Left Brachial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03784GZ	Dilation of Left Brachial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784Z1	Dilation of Left Brachial Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784Z6	Dilation of Left Brachial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03784ZZ	Dilation of Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0379046	Dilation of Right Ulnar Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037904Z	Dilation of Right Ulnar Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0379056	Dilation of Right Ulnar Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037905Z	Dilation of Right Ulnar Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0379066	Dilation of Right Ulnar Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037906Z	Dilation of Right Ulnar Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0379076	Dilation of Right Ulnar Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037907Z	Dilation of Right Ulnar Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03790D1	Dilation of Right Ulnar Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03790D6	Dilation of Right Ulnar Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03790DZ	Dilation of Right Ulnar Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03790E6	Dilation of Right Ulnar Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03790EZ	Dilation of Right Ulnar Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03790F6	Dilation of Right Ulnar Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03790FZ	Dilation of Right Ulnar Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03790G6	Dilation of Right Ulnar Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03790GZ	Dilation of Right Ulnar Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
03790Z1	Dilation of Right Ulnar Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
03790Z6	Dilation of Right Ulnar Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03790ZZ	Dilation of Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
0379346	Dilation of Right Ulnar Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037934Z	Dilation of Right Ulnar Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0379356	Dilation of Right Ulnar Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037935Z	Dilation of Right Ulnar Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0379366	Dilation of Right Ulnar Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037936Z	Dilation of Right Ulnar Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0379376	Dilation of Right Ulnar Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037937Z	Dilation of Right Ulnar Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03793D1	Dilation of Right Ulnar Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03793D6	Dilation of Right Ulnar Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03793DZ	Dilation of Right Ulnar Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03793E6	Dilation of Right Ulnar Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03793EZ	Dilation of Right Ulnar Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03793F6	Dilation of Right Ulnar Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03793FZ	Dilation of Right Ulnar Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03793G6	Dilation of Right Ulnar Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03793GZ	Dilation of Right Ulnar Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
03793Z1	Dilation of Right Ulnar Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
03793Z6	Dilation of Right Ulnar Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03793ZZ	Dilation of Right Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
0379446	Dilation of Right Ulnar Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037944Z	Dilation of Right Ulnar Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0379456	Dilation of Right Ulnar Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037945Z	Dilation of Right Ulnar Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0379466	Dilation of Right Ulnar Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037946Z	Dilation of Right Ulnar Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0379476	Dilation of Right Ulnar Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037947Z	Dilation of Right Ulnar Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794D1	Dilation of Right Ulnar Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794D6	Dilation of Right Ulnar Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794DZ	Dilation of Right Ulnar Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794E6	Dilation of Right Ulnar Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794EZ	Dilation of Right Ulnar Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794F6	Dilation of Right Ulnar Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794FZ	Dilation of Right Ulnar Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794G6	Dilation of Right Ulnar Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794GZ	Dilation of Right Ulnar Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794Z1	Dilation of Right Ulnar Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794Z6	Dilation of Right Ulnar Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03794ZZ	Dilation of Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A046	Dilation of Left Ulnar Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037A04Z	Dilation of Left Ulnar Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037A056	Dilation of Left Ulnar Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A05Z	Dilation of Left Ulnar Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A066	Dilation of Left Ulnar Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A06Z	Dilation of Left Ulnar Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A076	Dilation of Left Ulnar Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A07Z	Dilation of Left Ulnar Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A0D1	Dilation of Left Ulnar Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037A0D6	Dilation of Left Ulnar Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037A0DZ	Dilation of Left Ulnar Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037A0E6	Dilation of Left Ulnar Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A0EZ	Dilation of Left Ulnar Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A0F6	Dilation of Left Ulnar Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A0FZ	Dilation of Left Ulnar Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A0G6	Dilation of Left Ulnar Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A0GZ	Dilation of Left Ulnar Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037A0Z1	Dilation of Left Ulnar Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
037A0Z6	Dilation of Left Ulnar Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037A0ZZ	Dilation of Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
037A346	Dilation of Left Ulnar Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037A34Z	Dilation of Left Ulnar Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037A356	Dilation of Left Ulnar Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A35Z	Dilation of Left Ulnar Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A366	Dilation of Left Ulnar Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A36Z	Dilation of Left Ulnar Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A376	Dilation of Left Ulnar Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A37Z	Dilation of Left Ulnar Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A3D1	Dilation of Left Ulnar Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
037A3D6	Dilation of Left Ulnar Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037A3DZ	Dilation of Left Ulnar Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037A3E6	Dilation of Left Ulnar Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A3EZ	Dilation of Left Ulnar Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A3F6	Dilation of Left Ulnar Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A3FZ	Dilation of Left Ulnar Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037A3G6	Dilation of Left Ulnar Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A3GZ	Dilation of Left Ulnar Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037A3Z1	Dilation of Left Ulnar Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
037A3Z6	Dilation of Left Ulnar Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037A3ZZ	Dilation of Left Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
037A446	Dilation of Left Ulnar Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A44Z	Dilation of Left Ulnar Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A456	Dilation of Left Ulnar Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A45Z	Dilation of Left Ulnar Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A466	Dilation of Left Ulnar Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A46Z	Dilation of Left Ulnar Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A476	Dilation of Left Ulnar Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A47Z	Dilation of Left Ulnar Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4D1	Dilation of Left Ulnar Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4D6	Dilation of Left Ulnar Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4DZ	Dilation of Left Ulnar Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4E6	Dilation of Left Ulnar Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4EZ	Dilation of Left Ulnar Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4F6	Dilation of Left Ulnar Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4FZ	Dilation of Left Ulnar Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4G6	Dilation of Left Ulnar Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4GZ	Dilation of Left Ulnar Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4Z1	Dilation of Left Ulnar Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4Z6	Dilation of Left Ulnar Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037A4ZZ	Dilation of Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037B046	Dilation of Right Radial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037B04Z	Dilation of Right Radial Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037B056	Dilation of Right Radial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B05Z	Dilation of Right Radial Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B066	Dilation of Right Radial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B06Z	Dilation of Right Radial Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B076	Dilation of Right Radial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B07Z	Dilation of Right Radial Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B0D1	Dilation of Right Radial Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
037B0D6	Dilation of Right Radial Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037B0DZ	Dilation of Right Radial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037B0E6	Dilation of Right Radial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B0EZ	Dilation of Right Radial Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B0F6	Dilation of Right Radial Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B0FZ	Dilation of Right Radial Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B0G6	Dilation of Right Radial Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B0GZ	Dilation of Right Radial Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037B0Z1	Dilation of Right Radial Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
037B0Z6	Dilation of Right Radial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037B0ZZ	Dilation of Right Radial Artery, Open Approach	PX	ICD-10-PCS
037B346	Dilation of Right Radial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037B34Z	Dilation of Right Radial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037B356	Dilation of Right Radial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B35Z	Dilation of Right Radial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B366	Dilation of Right Radial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037B36Z	Dilation of Right Radial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B376	Dilation of Right Radial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B37Z	Dilation of Right Radial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B3D1	Dilation of Right Radial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
037B3D6	Dilation of Right Radial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037B3DZ	Dilation of Right Radial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037B3E6	Dilation of Right Radial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B3EZ	Dilation of Right Radial Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B3F6	Dilation of Right Radial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B3FZ	Dilation of Right Radial Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B3G6	Dilation of Right Radial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B3GZ	Dilation of Right Radial Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037B3Z1	Dilation of Right Radial Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
037B3Z6	Dilation of Right Radial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037B3ZZ	Dilation of Right Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
037B446	Dilation of Right Radial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B44Z	Dilation of Right Radial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B456	Dilation of Right Radial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B45Z	Dilation of Right Radial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B466	Dilation of Right Radial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B46Z	Dilation of Right Radial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B476	Dilation of Right Radial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B47Z	Dilation of Right Radial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4D1	Dilation of Right Radial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037B4D6	Dilation of Right Radial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4DZ	Dilation of Right Radial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4E6	Dilation of Right Radial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4EZ	Dilation of Right Radial Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4F6	Dilation of Right Radial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4FZ	Dilation of Right Radial Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4G6	Dilation of Right Radial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4GZ	Dilation of Right Radial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4Z1	Dilation of Right Radial Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4Z6	Dilation of Right Radial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037B4ZZ	Dilation of Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C046	Dilation of Left Radial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037C04Z	Dilation of Left Radial Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037C056	Dilation of Left Radial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C05Z	Dilation of Left Radial Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C066	Dilation of Left Radial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C06Z	Dilation of Left Radial Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C076	Dilation of Left Radial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C07Z	Dilation of Left Radial Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C0D1	Dilation of Left Radial Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
037C0D6	Dilation of Left Radial Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037C0DZ	Dilation of Left Radial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037C0E6	Dilation of Left Radial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C0EZ	Dilation of Left Radial Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037C0F6	Dilation of Left Radial Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C0FZ	Dilation of Left Radial Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C0G6	Dilation of Left Radial Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C0GZ	Dilation of Left Radial Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037C0Z1	Dilation of Left Radial Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
037C0Z6	Dilation of Left Radial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037C0ZZ	Dilation of Left Radial Artery, Open Approach	PX	ICD-10-PCS
037C346	Dilation of Left Radial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037C34Z	Dilation of Left Radial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037C356	Dilation of Left Radial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C35Z	Dilation of Left Radial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C366	Dilation of Left Radial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C36Z	Dilation of Left Radial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C376	Dilation of Left Radial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C37Z	Dilation of Left Radial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C3D1	Dilation of Left Radial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
037C3D6	Dilation of Left Radial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037C3DZ	Dilation of Left Radial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037C3E6	Dilation of Left Radial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C3EZ	Dilation of Left Radial Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C3F6	Dilation of Left Radial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C3FZ	Dilation of Left Radial Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C3G6	Dilation of Left Radial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C3GZ	Dilation of Left Radial Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037C3Z1	Dilation of Left Radial Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037C3Z6	Dilation of Left Radial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037C3ZZ	Dilation of Left Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
037C446	Dilation of Left Radial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C44Z	Dilation of Left Radial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C456	Dilation of Left Radial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C45Z	Dilation of Left Radial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C466	Dilation of Left Radial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C46Z	Dilation of Left Radial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C476	Dilation of Left Radial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C47Z	Dilation of Left Radial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4D1	Dilation of Left Radial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4D6	Dilation of Left Radial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4DZ	Dilation of Left Radial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4E6	Dilation of Left Radial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4EZ	Dilation of Left Radial Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4F6	Dilation of Left Radial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4FZ	Dilation of Left Radial Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4G6	Dilation of Left Radial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4GZ	Dilation of Left Radial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4Z1	Dilation of Left Radial Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4Z6	Dilation of Left Radial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037C4ZZ	Dilation of Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D046	Dilation of Right Hand Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037D04Z	Dilation of Right Hand Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037D056	Dilation of Right Hand Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D05Z	Dilation of Right Hand Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D066	Dilation of Right Hand Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D06Z	Dilation of Right Hand Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D076	Dilation of Right Hand Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D07Z	Dilation of Right Hand Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D0D6	Dilation of Right Hand Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037D0DZ	Dilation of Right Hand Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037D0E6	Dilation of Right Hand Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D0EZ	Dilation of Right Hand Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D0F6	Dilation of Right Hand Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D0FZ	Dilation of Right Hand Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D0G6	Dilation of Right Hand Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D0GZ	Dilation of Right Hand Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037D0Z6	Dilation of Right Hand Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037D0ZZ	Dilation of Right Hand Artery, Open Approach	PX	ICD-10-PCS
037D346	Dilation of Right Hand Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037D34Z	Dilation of Right Hand Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037D356	Dilation of Right Hand Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D35Z	Dilation of Right Hand Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D366	Dilation of Right Hand Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D36Z	Dilation of Right Hand Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D376	Dilation of Right Hand Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D37Z	Dilation of Right Hand Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D3D6	Dilation of Right Hand Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037D3DZ	Dilation of Right Hand Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037D3E6	Dilation of Right Hand Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D3EZ	Dilation of Right Hand Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D3F6	Dilation of Right Hand Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D3FZ	Dilation of Right Hand Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D3G6	Dilation of Right Hand Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D3GZ	Dilation of Right Hand Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037D3Z6	Dilation of Right Hand Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037D3ZZ	Dilation of Right Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
037D446	Dilation of Right Hand Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D44Z	Dilation of Right Hand Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D456	Dilation of Right Hand Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D45Z	Dilation of Right Hand Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D466	Dilation of Right Hand Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D46Z	Dilation of Right Hand Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D476	Dilation of Right Hand Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D47Z	Dilation of Right Hand Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D4D6	Dilation of Right Hand Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D4DZ	Dilation of Right Hand Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D4E6	Dilation of Right Hand Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D4EZ	Dilation of Right Hand Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D4F6	Dilation of Right Hand Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D4FZ	Dilation of Right Hand Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D4G6	Dilation of Right Hand Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037D4GZ	Dilation of Right Hand Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D4Z6	Dilation of Right Hand Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037D4ZZ	Dilation of Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F046	Dilation of Left Hand Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037F04Z	Dilation of Left Hand Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037F056	Dilation of Left Hand Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F05Z	Dilation of Left Hand Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F066	Dilation of Left Hand Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F06Z	Dilation of Left Hand Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F076	Dilation of Left Hand Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F07Z	Dilation of Left Hand Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F0D6	Dilation of Left Hand Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037F0DZ	Dilation of Left Hand Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037F0E6	Dilation of Left Hand Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F0EZ	Dilation of Left Hand Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F0F6	Dilation of Left Hand Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F0FZ	Dilation of Left Hand Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F0G6	Dilation of Left Hand Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F0GZ	Dilation of Left Hand Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037F0Z6	Dilation of Left Hand Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037F0ZZ	Dilation of Left Hand Artery, Open Approach	PX	ICD-10-PCS
037F346	Dilation of Left Hand Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037F34Z	Dilation of Left Hand Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037F356	Dilation of Left Hand Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F35Z	Dilation of Left Hand Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F366	Dilation of Left Hand Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037F36Z	Dilation of Left Hand Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F376	Dilation of Left Hand Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F37Z	Dilation of Left Hand Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F3D6	Dilation of Left Hand Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037F3DZ	Dilation of Left Hand Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037F3E6	Dilation of Left Hand Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F3EZ	Dilation of Left Hand Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F3F6	Dilation of Left Hand Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F3FZ	Dilation of Left Hand Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F3G6	Dilation of Left Hand Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F3GZ	Dilation of Left Hand Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037F3Z6	Dilation of Left Hand Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037F3ZZ	Dilation of Left Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
037F446	Dilation of Left Hand Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F44Z	Dilation of Left Hand Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F456	Dilation of Left Hand Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F45Z	Dilation of Left Hand Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F466	Dilation of Left Hand Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F46Z	Dilation of Left Hand Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F476	Dilation of Left Hand Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F47Z	Dilation of Left Hand Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F4D6	Dilation of Left Hand Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F4DZ	Dilation of Left Hand Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F4E6	Dilation of Left Hand Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037F4EZ	Dilation of Left Hand Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F4F6	Dilation of Left Hand Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F4FZ	Dilation of Left Hand Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F4G6	Dilation of Left Hand Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F4GZ	Dilation of Left Hand Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F4Z6	Dilation of Left Hand Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037F4ZZ	Dilation of Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G046	Dilation of Intracranial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037G04Z	Dilation of Intracranial Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037G056	Dilation of Intracranial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G05Z	Dilation of Intracranial Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G066	Dilation of Intracranial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G06Z	Dilation of Intracranial Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G076	Dilation of Intracranial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G07Z	Dilation of Intracranial Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G0D6	Dilation of Intracranial Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037G0DZ	Dilation of Intracranial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037G0E6	Dilation of Intracranial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G0EZ	Dilation of Intracranial Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G0F6	Dilation of Intracranial Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G0FZ	Dilation of Intracranial Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G0G6	Dilation of Intracranial Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G0GZ	Dilation of Intracranial Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037G0Z6	Dilation of Intracranial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037G0ZZ	Dilation of Intracranial Artery, Open Approach	PX	ICD-10-PCS
037G346	Dilation of Intracranial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037G34Z	Dilation of Intracranial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037G356	Dilation of Intracranial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G35Z	Dilation of Intracranial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G366	Dilation of Intracranial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G36Z	Dilation of Intracranial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G376	Dilation of Intracranial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G37Z	Dilation of Intracranial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G3D6	Dilation of Intracranial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037G3DZ	Dilation of Intracranial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037G3E6	Dilation of Intracranial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G3EZ	Dilation of Intracranial Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G3F6	Dilation of Intracranial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G3FZ	Dilation of Intracranial Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G3G6	Dilation of Intracranial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G3GZ	Dilation of Intracranial Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037G3Z6	Dilation of Intracranial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037G3ZZ	Dilation of Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS
037G446	Dilation of Intracranial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G44Z	Dilation of Intracranial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G456	Dilation of Intracranial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G45Z	Dilation of Intracranial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G466	Dilation of Intracranial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G46Z	Dilation of Intracranial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G476	Dilation of Intracranial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037G47Z	Dilation of Intracranial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G4D6	Dilation of Intracranial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G4DZ	Dilation of Intracranial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G4E6	Dilation of Intracranial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G4EZ	Dilation of Intracranial Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G4F6	Dilation of Intracranial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G4FZ	Dilation of Intracranial Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G4G6	Dilation of Intracranial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G4GZ	Dilation of Intracranial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G4Z6	Dilation of Intracranial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037G4ZZ	Dilation of Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H046	Dilation of Right Common Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037H04Z	Dilation of Right Common Carotid Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037H056	Dilation of Right Common Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H05Z	Dilation of Right Common Carotid Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H066	Dilation of Right Common Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H06Z	Dilation of Right Common Carotid Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H076	Dilation of Right Common Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H07Z	Dilation of Right Common Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H0D6	Dilation of Right Common Carotid Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037H0DZ	Dilation of Right Common Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037H0E6	Dilation of Right Common Carotid Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H0EZ	Dilation of Right Common Carotid Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037H0F6	Dilation of Right Common Carotid Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H0FZ	Dilation of Right Common Carotid Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H0G6	Dilation of Right Common Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H0GZ	Dilation of Right Common Carotid Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037H0Z6	Dilation of Right Common Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037H0ZZ	Dilation of Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS
037H346	Dilation of Right Common Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037H34Z	Dilation of Right Common Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037H356	Dilation of Right Common Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H35Z	Dilation of Right Common Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H366	Dilation of Right Common Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H36Z	Dilation of Right Common Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H376	Dilation of Right Common Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H37Z	Dilation of Right Common Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H3D6	Dilation of Right Common Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037H3DZ	Dilation of Right Common Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037H3E6	Dilation of Right Common Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H3EZ	Dilation of Right Common Carotid Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H3F6	Dilation of Right Common Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H3FZ	Dilation of Right Common Carotid Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H3G6	Dilation of Right Common Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H3GZ	Dilation of Right Common Carotid Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037H3Z6	Dilation of Right Common Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037H3ZZ	Dilation of Right Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037H446	Dilation of Right Common Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H44Z	Dilation of Right Common Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H456	Dilation of Right Common Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H45Z	Dilation of Right Common Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H466	Dilation of Right Common Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H46Z	Dilation of Right Common Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H476	Dilation of Right Common Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H47Z	Dilation of Right Common Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H4D6	Dilation of Right Common Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H4DZ	Dilation of Right Common Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H4E6	Dilation of Right Common Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H4EZ	Dilation of Right Common Carotid Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H4F6	Dilation of Right Common Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H4FZ	Dilation of Right Common Carotid Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H4G6	Dilation of Right Common Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H4GZ	Dilation of Right Common Carotid Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H4Z6	Dilation of Right Common Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037H4ZZ	Dilation of Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J046	Dilation of Left Common Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037J04Z	Dilation of Left Common Carotid Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037J056	Dilation of Left Common Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J05Z	Dilation of Left Common Carotid Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J066	Dilation of Left Common Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037J06Z	Dilation of Left Common Carotid Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J076	Dilation of Left Common Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J07Z	Dilation of Left Common Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J0D6	Dilation of Left Common Carotid Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037J0DZ	Dilation of Left Common Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037J0E6	Dilation of Left Common Carotid Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J0EZ	Dilation of Left Common Carotid Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J0F6	Dilation of Left Common Carotid Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J0FZ	Dilation of Left Common Carotid Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J0G6	Dilation of Left Common Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J0GZ	Dilation of Left Common Carotid Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037J0Z6	Dilation of Left Common Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037J0ZZ	Dilation of Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
037J346	Dilation of Left Common Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037J34Z	Dilation of Left Common Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037J356	Dilation of Left Common Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J35Z	Dilation of Left Common Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J366	Dilation of Left Common Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J36Z	Dilation of Left Common Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J376	Dilation of Left Common Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J37Z	Dilation of Left Common Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J3D6	Dilation of Left Common Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037J3DZ	Dilation of Left Common Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037J3E6	Dilation of Left Common Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J3EZ	Dilation of Left Common Carotid Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J3F6	Dilation of Left Common Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J3FZ	Dilation of Left Common Carotid Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J3G6	Dilation of Left Common Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J3GZ	Dilation of Left Common Carotid Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037J3Z6	Dilation of Left Common Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037J3ZZ	Dilation of Left Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
037J446	Dilation of Left Common Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J44Z	Dilation of Left Common Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J456	Dilation of Left Common Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J45Z	Dilation of Left Common Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J466	Dilation of Left Common Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J46Z	Dilation of Left Common Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J476	Dilation of Left Common Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J47Z	Dilation of Left Common Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J4D6	Dilation of Left Common Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J4DZ	Dilation of Left Common Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J4E6	Dilation of Left Common Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J4EZ	Dilation of Left Common Carotid Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J4F6	Dilation of Left Common Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J4FZ	Dilation of Left Common Carotid Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J4G6	Dilation of Left Common Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037J4GZ	Dilation of Left Common Carotid Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J4Z6	Dilation of Left Common Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037J4ZZ	Dilation of Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K046	Dilation of Right Internal Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037K04Z	Dilation of Right Internal Carotid Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037K056	Dilation of Right Internal Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K05Z	Dilation of Right Internal Carotid Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K066	Dilation of Right Internal Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K06Z	Dilation of Right Internal Carotid Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K076	Dilation of Right Internal Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K07Z	Dilation of Right Internal Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K0D6	Dilation of Right Internal Carotid Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037K0DZ	Dilation of Right Internal Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037K0E6	Dilation of Right Internal Carotid Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K0EZ	Dilation of Right Internal Carotid Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K0F6	Dilation of Right Internal Carotid Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K0FZ	Dilation of Right Internal Carotid Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K0G6	Dilation of Right Internal Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K0GZ	Dilation of Right Internal Carotid Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037K0Z6	Dilation of Right Internal Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037K0ZZ	Dilation of Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
037K346	Dilation of Right Internal Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037K34Z	Dilation of Right Internal Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037K356	Dilation of Right Internal Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037K35Z	Dilation of Right Internal Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K366	Dilation of Right Internal Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K36Z	Dilation of Right Internal Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K376	Dilation of Right Internal Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K37Z	Dilation of Right Internal Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K3D6	Dilation of Right Internal Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037K3DZ	Dilation of Right Internal Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037K3E6	Dilation of Right Internal Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K3EZ	Dilation of Right Internal Carotid Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K3F6	Dilation of Right Internal Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K3FZ	Dilation of Right Internal Carotid Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K3G6	Dilation of Right Internal Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K3GZ	Dilation of Right Internal Carotid Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037K3Z6	Dilation of Right Internal Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037K3ZZ	Dilation of Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
037K446	Dilation of Right Internal Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K44Z	Dilation of Right Internal Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K456	Dilation of Right Internal Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K45Z	Dilation of Right Internal Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K466	Dilation of Right Internal Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K46Z	Dilation of Right Internal Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K476	Dilation of Right Internal Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K47Z	Dilation of Right Internal Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037K4D6	Dilation of Right Internal Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K4DZ	Dilation of Right Internal Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K4E6	Dilation of Right Internal Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K4EZ	Dilation of Right Internal Carotid Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K4F6	Dilation of Right Internal Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K4FZ	Dilation of Right Internal Carotid Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K4G6	Dilation of Right Internal Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K4GZ	Dilation of Right Internal Carotid Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K4Z6	Dilation of Right Internal Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037K4ZZ	Dilation of Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L046	Dilation of Left Internal Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037L04Z	Dilation of Left Internal Carotid Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037L056	Dilation of Left Internal Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L05Z	Dilation of Left Internal Carotid Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L066	Dilation of Left Internal Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L06Z	Dilation of Left Internal Carotid Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L076	Dilation of Left Internal Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L07Z	Dilation of Left Internal Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L0D6	Dilation of Left Internal Carotid Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037L0DZ	Dilation of Left Internal Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037L0E6	Dilation of Left Internal Carotid Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L0EZ	Dilation of Left Internal Carotid Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L0F6	Dilation of Left Internal Carotid Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037L0FZ	Dilation of Left Internal Carotid Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L0G6	Dilation of Left Internal Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L0GZ	Dilation of Left Internal Carotid Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037L0Z6	Dilation of Left Internal Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037L0ZZ	Dilation of Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
037L346	Dilation of Left Internal Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037L34Z	Dilation of Left Internal Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037L356	Dilation of Left Internal Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L35Z	Dilation of Left Internal Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L366	Dilation of Left Internal Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L36Z	Dilation of Left Internal Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L376	Dilation of Left Internal Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L37Z	Dilation of Left Internal Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L3D6	Dilation of Left Internal Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037L3DZ	Dilation of Left Internal Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037L3E6	Dilation of Left Internal Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L3EZ	Dilation of Left Internal Carotid Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L3F6	Dilation of Left Internal Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L3FZ	Dilation of Left Internal Carotid Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L3G6	Dilation of Left Internal Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L3GZ	Dilation of Left Internal Carotid Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037L3Z6	Dilation of Left Internal Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037L3ZZ	Dilation of Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
037L446	Dilation of Left Internal Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037L44Z	Dilation of Left Internal Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L456	Dilation of Left Internal Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L45Z	Dilation of Left Internal Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L466	Dilation of Left Internal Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L46Z	Dilation of Left Internal Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L476	Dilation of Left Internal Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L47Z	Dilation of Left Internal Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L4D6	Dilation of Left Internal Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L4DZ	Dilation of Left Internal Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L4E6	Dilation of Left Internal Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L4EZ	Dilation of Left Internal Carotid Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L4F6	Dilation of Left Internal Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L4FZ	Dilation of Left Internal Carotid Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L4G6	Dilation of Left Internal Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L4GZ	Dilation of Left Internal Carotid Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L4Z6	Dilation of Left Internal Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037L4ZZ	Dilation of Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M046	Dilation of Right External Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037M04Z	Dilation of Right External Carotid Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037M056	Dilation of Right External Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M05Z	Dilation of Right External Carotid Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M066	Dilation of Right External Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M06Z	Dilation of Right External Carotid Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037M076	Dilation of Right External Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M07Z	Dilation of Right External Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M0D6	Dilation of Right External Carotid Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037M0DZ	Dilation of Right External Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037M0E6	Dilation of Right External Carotid Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M0EZ	Dilation of Right External Carotid Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M0F6	Dilation of Right External Carotid Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M0FZ	Dilation of Right External Carotid Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M0G6	Dilation of Right External Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M0GZ	Dilation of Right External Carotid Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037M0Z6	Dilation of Right External Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037M0ZZ	Dilation of Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
037M346	Dilation of Right External Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037M34Z	Dilation of Right External Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037M356	Dilation of Right External Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M35Z	Dilation of Right External Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M366	Dilation of Right External Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M36Z	Dilation of Right External Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M376	Dilation of Right External Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M37Z	Dilation of Right External Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M3D6	Dilation of Right External Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037M3DZ	Dilation of Right External Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037M3E6	Dilation of Right External Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037M3EZ	Dilation of Right External Carotid Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M3F6	Dilation of Right External Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M3FZ	Dilation of Right External Carotid Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M3G6	Dilation of Right External Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M3GZ	Dilation of Right External Carotid Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037M3Z6	Dilation of Right External Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037M3ZZ	Dilation of Right External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
037M446	Dilation of Right External Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M44Z	Dilation of Right External Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M456	Dilation of Right External Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M45Z	Dilation of Right External Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M466	Dilation of Right External Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M46Z	Dilation of Right External Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M476	Dilation of Right External Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M47Z	Dilation of Right External Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M4D6	Dilation of Right External Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M4DZ	Dilation of Right External Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M4E6	Dilation of Right External Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M4EZ	Dilation of Right External Carotid Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M4F6	Dilation of Right External Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M4FZ	Dilation of Right External Carotid Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M4G6	Dilation of Right External Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M4GZ	Dilation of Right External Carotid Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037M4Z6	Dilation of Right External Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037M4ZZ	Dilation of Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N046	Dilation of Left External Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037N04Z	Dilation of Left External Carotid Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037N056	Dilation of Left External Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N05Z	Dilation of Left External Carotid Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N066	Dilation of Left External Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N06Z	Dilation of Left External Carotid Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N076	Dilation of Left External Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N07Z	Dilation of Left External Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N0D6	Dilation of Left External Carotid Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037N0DZ	Dilation of Left External Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037N0E6	Dilation of Left External Carotid Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N0EZ	Dilation of Left External Carotid Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N0F6	Dilation of Left External Carotid Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N0FZ	Dilation of Left External Carotid Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N0G6	Dilation of Left External Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N0GZ	Dilation of Left External Carotid Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037N0Z6	Dilation of Left External Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037N0ZZ	Dilation of Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
037N346	Dilation of Left External Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037N34Z	Dilation of Left External Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037N356	Dilation of Left External Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N35Z	Dilation of Left External Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037N366	Dilation of Left External Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N36Z	Dilation of Left External Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N376	Dilation of Left External Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N37Z	Dilation of Left External Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N3D6	Dilation of Left External Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037N3DZ	Dilation of Left External Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037N3E6	Dilation of Left External Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N3EZ	Dilation of Left External Carotid Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N3F6	Dilation of Left External Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N3FZ	Dilation of Left External Carotid Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N3G6	Dilation of Left External Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N3GZ	Dilation of Left External Carotid Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037N3Z6	Dilation of Left External Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037N3ZZ	Dilation of Left External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
037N446	Dilation of Left External Carotid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N44Z	Dilation of Left External Carotid Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N456	Dilation of Left External Carotid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N45Z	Dilation of Left External Carotid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N466	Dilation of Left External Carotid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N46Z	Dilation of Left External Carotid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N476	Dilation of Left External Carotid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N47Z	Dilation of Left External Carotid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N4D6	Dilation of Left External Carotid Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037N4DZ	Dilation of Left External Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N4E6	Dilation of Left External Carotid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N4EZ	Dilation of Left External Carotid Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N4F6	Dilation of Left External Carotid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N4FZ	Dilation of Left External Carotid Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N4G6	Dilation of Left External Carotid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N4GZ	Dilation of Left External Carotid Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N4Z6	Dilation of Left External Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037N4ZZ	Dilation of Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P046	Dilation of Right Vertebral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037P04Z	Dilation of Right Vertebral Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037P056	Dilation of Right Vertebral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P05Z	Dilation of Right Vertebral Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P066	Dilation of Right Vertebral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P06Z	Dilation of Right Vertebral Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P076	Dilation of Right Vertebral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P07Z	Dilation of Right Vertebral Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P0D6	Dilation of Right Vertebral Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037P0DZ	Dilation of Right Vertebral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037P0E6	Dilation of Right Vertebral Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P0EZ	Dilation of Right Vertebral Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P0F6	Dilation of Right Vertebral Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P0FZ	Dilation of Right Vertebral Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037P0G6	Dilation of Right Vertebral Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P0GZ	Dilation of Right Vertebral Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037P0Z6	Dilation of Right Vertebral Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037P0ZZ	Dilation of Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
037P346	Dilation of Right Vertebral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037P34Z	Dilation of Right Vertebral Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037P356	Dilation of Right Vertebral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P35Z	Dilation of Right Vertebral Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P366	Dilation of Right Vertebral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P36Z	Dilation of Right Vertebral Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P376	Dilation of Right Vertebral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P37Z	Dilation of Right Vertebral Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P3D6	Dilation of Right Vertebral Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037P3DZ	Dilation of Right Vertebral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037P3E6	Dilation of Right Vertebral Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P3EZ	Dilation of Right Vertebral Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P3F6	Dilation of Right Vertebral Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P3FZ	Dilation of Right Vertebral Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P3G6	Dilation of Right Vertebral Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P3GZ	Dilation of Right Vertebral Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037P3Z6	Dilation of Right Vertebral Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037P3ZZ	Dilation of Right Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
037P446	Dilation of Right Vertebral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P44Z	Dilation of Right Vertebral Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037P456	Dilation of Right Vertebral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P45Z	Dilation of Right Vertebral Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P466	Dilation of Right Vertebral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P46Z	Dilation of Right Vertebral Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P476	Dilation of Right Vertebral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P47Z	Dilation of Right Vertebral Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P4D6	Dilation of Right Vertebral Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P4DZ	Dilation of Right Vertebral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P4E6	Dilation of Right Vertebral Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P4EZ	Dilation of Right Vertebral Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P4F6	Dilation of Right Vertebral Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P4FZ	Dilation of Right Vertebral Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P4G6	Dilation of Right Vertebral Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P4GZ	Dilation of Right Vertebral Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P4Z6	Dilation of Right Vertebral Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037P4ZZ	Dilation of Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q046	Dilation of Left Vertebral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037Q04Z	Dilation of Left Vertebral Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037Q056	Dilation of Left Vertebral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q05Z	Dilation of Left Vertebral Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q066	Dilation of Left Vertebral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q06Z	Dilation of Left Vertebral Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q076	Dilation of Left Vertebral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037Q07Z	Dilation of Left Vertebral Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q0D6	Dilation of Left Vertebral Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037Q0DZ	Dilation of Left Vertebral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037Q0E6	Dilation of Left Vertebral Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q0EZ	Dilation of Left Vertebral Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q0F6	Dilation of Left Vertebral Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q0FZ	Dilation of Left Vertebral Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q0G6	Dilation of Left Vertebral Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q0GZ	Dilation of Left Vertebral Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Q0Z6	Dilation of Left Vertebral Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037Q0ZZ	Dilation of Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
037Q346	Dilation of Left Vertebral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037Q34Z	Dilation of Left Vertebral Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037Q356	Dilation of Left Vertebral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q35Z	Dilation of Left Vertebral Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q366	Dilation of Left Vertebral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q36Z	Dilation of Left Vertebral Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q376	Dilation of Left Vertebral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q37Z	Dilation of Left Vertebral Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q3D6	Dilation of Left Vertebral Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037Q3DZ	Dilation of Left Vertebral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037Q3E6	Dilation of Left Vertebral Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q3EZ	Dilation of Left Vertebral Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q3F6	Dilation of Left Vertebral Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037Q3FZ	Dilation of Left Vertebral Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q3G6	Dilation of Left Vertebral Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q3GZ	Dilation of Left Vertebral Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Q3Z6	Dilation of Left Vertebral Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037Q3ZZ	Dilation of Left Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
037Q446	Dilation of Left Vertebral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q44Z	Dilation of Left Vertebral Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q456	Dilation of Left Vertebral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q45Z	Dilation of Left Vertebral Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q466	Dilation of Left Vertebral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q46Z	Dilation of Left Vertebral Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q476	Dilation of Left Vertebral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q47Z	Dilation of Left Vertebral Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q4D6	Dilation of Left Vertebral Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q4DZ	Dilation of Left Vertebral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q4E6	Dilation of Left Vertebral Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q4EZ	Dilation of Left Vertebral Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q4F6	Dilation of Left Vertebral Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q4FZ	Dilation of Left Vertebral Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q4G6	Dilation of Left Vertebral Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q4GZ	Dilation of Left Vertebral Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q4Z6	Dilation of Left Vertebral Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Q4ZZ	Dilation of Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R046	Dilation of Face Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037R04Z	Dilation of Face Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037R056	Dilation of Face Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R05Z	Dilation of Face Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R066	Dilation of Face Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R06Z	Dilation of Face Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R076	Dilation of Face Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R07Z	Dilation of Face Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R0D6	Dilation of Face Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037R0DZ	Dilation of Face Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037R0E6	Dilation of Face Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R0EZ	Dilation of Face Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R0F6	Dilation of Face Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R0FZ	Dilation of Face Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R0G6	Dilation of Face Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R0GZ	Dilation of Face Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037R0Z6	Dilation of Face Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037R0ZZ	Dilation of Face Artery, Open Approach	PX	ICD-10-PCS
037R346	Dilation of Face Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037R34Z	Dilation of Face Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037R356	Dilation of Face Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R35Z	Dilation of Face Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R366	Dilation of Face Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R36Z	Dilation of Face Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R376	Dilation of Face Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R37Z	Dilation of Face Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R3D6	Dilation of Face Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037R3DZ	Dilation of Face Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037R3E6	Dilation of Face Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R3EZ	Dilation of Face Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R3F6	Dilation of Face Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R3FZ	Dilation of Face Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R3G6	Dilation of Face Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R3GZ	Dilation of Face Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037R3Z6	Dilation of Face Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037R3ZZ	Dilation of Face Artery, Percutaneous Approach	PX	ICD-10-PCS
037R446	Dilation of Face Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R44Z	Dilation of Face Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R456	Dilation of Face Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R45Z	Dilation of Face Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R466	Dilation of Face Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R46Z	Dilation of Face Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R476	Dilation of Face Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R47Z	Dilation of Face Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R4D6	Dilation of Face Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R4DZ	Dilation of Face Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R4E6	Dilation of Face Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R4EZ	Dilation of Face Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R4F6	Dilation of Face Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R4FZ	Dilation of Face Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R4G6	Dilation of Face Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R4GZ	Dilation of Face Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037R4Z6	Dilation of Face Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037R4ZZ	Dilation of Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S046	Dilation of Right Temporal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037S04Z	Dilation of Right Temporal Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037S056	Dilation of Right Temporal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S05Z	Dilation of Right Temporal Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S066	Dilation of Right Temporal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S06Z	Dilation of Right Temporal Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S076	Dilation of Right Temporal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S07Z	Dilation of Right Temporal Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S0D6	Dilation of Right Temporal Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037S0DZ	Dilation of Right Temporal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037S0E6	Dilation of Right Temporal Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S0EZ	Dilation of Right Temporal Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S0F6	Dilation of Right Temporal Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S0FZ	Dilation of Right Temporal Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S0G6	Dilation of Right Temporal Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S0GZ	Dilation of Right Temporal Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037S0Z6	Dilation of Right Temporal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037S0ZZ	Dilation of Right Temporal Artery, Open Approach	PX	ICD-10-PCS
037S346	Dilation of Right Temporal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037S34Z	Dilation of Right Temporal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037S356	Dilation of Right Temporal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S35Z	Dilation of Right Temporal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S366	Dilation of Right Temporal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037S36Z	Dilation of Right Temporal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S376	Dilation of Right Temporal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S37Z	Dilation of Right Temporal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S3D6	Dilation of Right Temporal Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037S3DZ	Dilation of Right Temporal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037S3E6	Dilation of Right Temporal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S3EZ	Dilation of Right Temporal Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S3F6	Dilation of Right Temporal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S3FZ	Dilation of Right Temporal Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S3G6	Dilation of Right Temporal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S3GZ	Dilation of Right Temporal Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037S3Z6	Dilation of Right Temporal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037S3ZZ	Dilation of Right Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
037S446	Dilation of Right Temporal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S44Z	Dilation of Right Temporal Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S456	Dilation of Right Temporal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S45Z	Dilation of Right Temporal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S466	Dilation of Right Temporal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S46Z	Dilation of Right Temporal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S476	Dilation of Right Temporal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S47Z	Dilation of Right Temporal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S4D6	Dilation of Right Temporal Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S4DZ	Dilation of Right Temporal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037S4E6	Dilation of Right Temporal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S4EZ	Dilation of Right Temporal Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S4F6	Dilation of Right Temporal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S4FZ	Dilation of Right Temporal Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S4G6	Dilation of Right Temporal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S4GZ	Dilation of Right Temporal Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S4Z6	Dilation of Right Temporal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037S4ZZ	Dilation of Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T046	Dilation of Left Temporal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037T04Z	Dilation of Left Temporal Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037T056	Dilation of Left Temporal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T05Z	Dilation of Left Temporal Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T066	Dilation of Left Temporal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T06Z	Dilation of Left Temporal Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T076	Dilation of Left Temporal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T07Z	Dilation of Left Temporal Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T0D6	Dilation of Left Temporal Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037T0DZ	Dilation of Left Temporal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037T0E6	Dilation of Left Temporal Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T0EZ	Dilation of Left Temporal Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T0F6	Dilation of Left Temporal Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T0FZ	Dilation of Left Temporal Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T0G6	Dilation of Left Temporal Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037T0GZ	Dilation of Left Temporal Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037T0Z6	Dilation of Left Temporal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037T0ZZ	Dilation of Left Temporal Artery, Open Approach	PX	ICD-10-PCS
037T346	Dilation of Left Temporal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037T34Z	Dilation of Left Temporal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037T356	Dilation of Left Temporal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T35Z	Dilation of Left Temporal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T366	Dilation of Left Temporal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T36Z	Dilation of Left Temporal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T376	Dilation of Left Temporal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T37Z	Dilation of Left Temporal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T3D6	Dilation of Left Temporal Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037T3DZ	Dilation of Left Temporal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037T3E6	Dilation of Left Temporal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T3EZ	Dilation of Left Temporal Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T3F6	Dilation of Left Temporal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T3FZ	Dilation of Left Temporal Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T3G6	Dilation of Left Temporal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T3GZ	Dilation of Left Temporal Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037T3Z6	Dilation of Left Temporal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037T3ZZ	Dilation of Left Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
037T446	Dilation of Left Temporal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T44Z	Dilation of Left Temporal Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T456	Dilation of Left Temporal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T45Z	Dilation of Left Temporal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037T466	Dilation of Left Temporal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T46Z	Dilation of Left Temporal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T476	Dilation of Left Temporal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T47Z	Dilation of Left Temporal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T4D6	Dilation of Left Temporal Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T4DZ	Dilation of Left Temporal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T4E6	Dilation of Left Temporal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T4EZ	Dilation of Left Temporal Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T4F6	Dilation of Left Temporal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T4FZ	Dilation of Left Temporal Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T4G6	Dilation of Left Temporal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T4GZ	Dilation of Left Temporal Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T4Z6	Dilation of Left Temporal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037T4ZZ	Dilation of Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U046	Dilation of Right Thyroid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037U04Z	Dilation of Right Thyroid Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037U056	Dilation of Right Thyroid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U05Z	Dilation of Right Thyroid Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U066	Dilation of Right Thyroid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U06Z	Dilation of Right Thyroid Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U076	Dilation of Right Thyroid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U07Z	Dilation of Right Thyroid Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U0D6	Dilation of Right Thyroid Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037U0DZ	Dilation of Right Thyroid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037U0E6	Dilation of Right Thyroid Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U0EZ	Dilation of Right Thyroid Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U0F6	Dilation of Right Thyroid Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U0FZ	Dilation of Right Thyroid Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U0G6	Dilation of Right Thyroid Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U0GZ	Dilation of Right Thyroid Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037U0Z6	Dilation of Right Thyroid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037U0ZZ	Dilation of Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
037U346	Dilation of Right Thyroid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037U34Z	Dilation of Right Thyroid Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037U356	Dilation of Right Thyroid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U35Z	Dilation of Right Thyroid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U366	Dilation of Right Thyroid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U36Z	Dilation of Right Thyroid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U376	Dilation of Right Thyroid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U37Z	Dilation of Right Thyroid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U3D6	Dilation of Right Thyroid Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037U3DZ	Dilation of Right Thyroid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037U3E6	Dilation of Right Thyroid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U3EZ	Dilation of Right Thyroid Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U3F6	Dilation of Right Thyroid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U3FZ	Dilation of Right Thyroid Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U3G6	Dilation of Right Thyroid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037U3GZ	Dilation of Right Thyroid Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037U3Z6	Dilation of Right Thyroid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037U3ZZ	Dilation of Right Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
037U446	Dilation of Right Thyroid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U44Z	Dilation of Right Thyroid Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U456	Dilation of Right Thyroid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U45Z	Dilation of Right Thyroid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U466	Dilation of Right Thyroid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U46Z	Dilation of Right Thyroid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U476	Dilation of Right Thyroid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U47Z	Dilation of Right Thyroid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U4D6	Dilation of Right Thyroid Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U4DZ	Dilation of Right Thyroid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U4E6	Dilation of Right Thyroid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U4EZ	Dilation of Right Thyroid Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U4F6	Dilation of Right Thyroid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U4FZ	Dilation of Right Thyroid Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U4G6	Dilation of Right Thyroid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U4GZ	Dilation of Right Thyroid Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U4Z6	Dilation of Right Thyroid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037U4ZZ	Dilation of Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V046	Dilation of Left Thyroid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037V04Z	Dilation of Left Thyroid Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037V056	Dilation of Left Thyroid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037V05Z	Dilation of Left Thyroid Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V066	Dilation of Left Thyroid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V06Z	Dilation of Left Thyroid Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V076	Dilation of Left Thyroid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V07Z	Dilation of Left Thyroid Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V0D6	Dilation of Left Thyroid Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037V0DZ	Dilation of Left Thyroid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037V0E6	Dilation of Left Thyroid Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V0EZ	Dilation of Left Thyroid Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V0F6	Dilation of Left Thyroid Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V0FZ	Dilation of Left Thyroid Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V0G6	Dilation of Left Thyroid Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V0GZ	Dilation of Left Thyroid Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037V0Z6	Dilation of Left Thyroid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037V0ZZ	Dilation of Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
037V346	Dilation of Left Thyroid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037V34Z	Dilation of Left Thyroid Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037V356	Dilation of Left Thyroid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V35Z	Dilation of Left Thyroid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V366	Dilation of Left Thyroid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V36Z	Dilation of Left Thyroid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V376	Dilation of Left Thyroid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V37Z	Dilation of Left Thyroid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V3D6	Dilation of Left Thyroid Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037V3DZ	Dilation of Left Thyroid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037V3E6	Dilation of Left Thyroid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V3EZ	Dilation of Left Thyroid Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V3F6	Dilation of Left Thyroid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V3FZ	Dilation of Left Thyroid Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V3G6	Dilation of Left Thyroid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V3GZ	Dilation of Left Thyroid Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037V3Z6	Dilation of Left Thyroid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037V3ZZ	Dilation of Left Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
037V446	Dilation of Left Thyroid Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V44Z	Dilation of Left Thyroid Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V456	Dilation of Left Thyroid Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V45Z	Dilation of Left Thyroid Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V466	Dilation of Left Thyroid Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V46Z	Dilation of Left Thyroid Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V476	Dilation of Left Thyroid Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V47Z	Dilation of Left Thyroid Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V4D6	Dilation of Left Thyroid Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V4DZ	Dilation of Left Thyroid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V4E6	Dilation of Left Thyroid Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V4EZ	Dilation of Left Thyroid Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V4F6	Dilation of Left Thyroid Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V4FZ	Dilation of Left Thyroid Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V4G6	Dilation of Left Thyroid Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037V4GZ	Dilation of Left Thyroid Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V4Z6	Dilation of Left Thyroid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037V4ZZ	Dilation of Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y046	Dilation of Upper Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037Y04Z	Dilation of Upper Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
037Y056	Dilation of Upper Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y05Z	Dilation of Upper Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y066	Dilation of Upper Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y06Z	Dilation of Upper Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y076	Dilation of Upper Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y07Z	Dilation of Upper Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y0D6	Dilation of Upper Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037Y0DZ	Dilation of Upper Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
037Y0E6	Dilation of Upper Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y0EZ	Dilation of Upper Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y0F6	Dilation of Upper Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y0FZ	Dilation of Upper Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y0G6	Dilation of Upper Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y0GZ	Dilation of Upper Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
037Y0Z6	Dilation of Upper Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
037Y0ZZ	Dilation of Upper Artery, Open Approach	PX	ICD-10-PCS
037Y346	Dilation of Upper Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037Y34Z	Dilation of Upper Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037Y356	Dilation of Upper Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y35Z	Dilation of Upper Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y366	Dilation of Upper Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y36Z	Dilation of Upper Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037Y376	Dilation of Upper Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y37Z	Dilation of Upper Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y3D6	Dilation of Upper Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037Y3DZ	Dilation of Upper Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
037Y3E6	Dilation of Upper Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y3EZ	Dilation of Upper Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y3F6	Dilation of Upper Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y3FZ	Dilation of Upper Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y3G6	Dilation of Upper Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y3GZ	Dilation of Upper Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
037Y3Z6	Dilation of Upper Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
037Y3ZZ	Dilation of Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
037Y446	Dilation of Upper Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y44Z	Dilation of Upper Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y456	Dilation of Upper Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y45Z	Dilation of Upper Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y466	Dilation of Upper Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y46Z	Dilation of Upper Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y476	Dilation of Upper Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y47Z	Dilation of Upper Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y4D6	Dilation of Upper Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y4DZ	Dilation of Upper Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y4E6	Dilation of Upper Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y4EZ	Dilation of Upper Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
037Y4F6	Dilation of Upper Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y4FZ	Dilation of Upper Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y4G6	Dilation of Upper Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y4GZ	Dilation of Upper Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y4Z6	Dilation of Upper Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
037Y4ZZ	Dilation of Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039000Z	Drainage of Right Internal Mammary Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
03900ZZ	Drainage of Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
039040Z	Drainage of Right Internal Mammary Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03904ZZ	Drainage of Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039100Z	Drainage of Left Internal Mammary Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
03910ZZ	Drainage of Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
039140Z	Drainage of Left Internal Mammary Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03914ZZ	Drainage of Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039200Z	Drainage of Innominate Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
03920ZZ	Drainage of Innominate Artery, Open Approach	PX	ICD-10-PCS
039240Z	Drainage of Innominate Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03924ZZ	Drainage of Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039300Z	Drainage of Right Subclavian Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
03930ZZ	Drainage of Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
039340Z	Drainage of Right Subclavian Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03934ZZ	Drainage of Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039400Z	Drainage of Left Subclavian Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
03940ZZ	Drainage of Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
039440Z	Drainage of Left Subclavian Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03944ZZ	Drainage of Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039500Z	Drainage of Right Axillary Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
03950ZZ	Drainage of Right Axillary Artery, Open Approach	PX	ICD-10-PCS
039540Z	Drainage of Right Axillary Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03954ZZ	Drainage of Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039600Z	Drainage of Left Axillary Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
03960ZZ	Drainage of Left Axillary Artery, Open Approach	PX	ICD-10-PCS
039640Z	Drainage of Left Axillary Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03964ZZ	Drainage of Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039700Z	Drainage of Right Brachial Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
03970ZZ	Drainage of Right Brachial Artery, Open Approach	PX	ICD-10-PCS
039740Z	Drainage of Right Brachial Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03974ZZ	Drainage of Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039800Z	Drainage of Left Brachial Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
03980ZZ	Drainage of Left Brachial Artery, Open Approach	PX	ICD-10-PCS
039840Z	Drainage of Left Brachial Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03984ZZ	Drainage of Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039900Z	Drainage of Right Ulnar Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
03990ZZ	Drainage of Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
039940Z	Drainage of Right Ulnar Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03994ZZ	Drainage of Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039A00Z	Drainage of Left Ulnar Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039A0ZZ	Drainage of Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
039A40Z	Drainage of Left Ulnar Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039A4ZZ	Drainage of Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039B00Z	Drainage of Right Radial Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039B0ZZ	Drainage of Right Radial Artery, Open Approach	PX	ICD-10-PCS
039B40Z	Drainage of Right Radial Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039B4ZZ	Drainage of Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039C00Z	Drainage of Left Radial Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039C0ZZ	Drainage of Left Radial Artery, Open Approach	PX	ICD-10-PCS
039C40Z	Drainage of Left Radial Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039C4ZZ	Drainage of Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039D00Z	Drainage of Right Hand Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039D0ZZ	Drainage of Right Hand Artery, Open Approach	PX	ICD-10-PCS
039D40Z	Drainage of Right Hand Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039D4ZZ	Drainage of Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039F00Z	Drainage of Left Hand Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039F0ZZ	Drainage of Left Hand Artery, Open Approach	PX	ICD-10-PCS
039F40Z	Drainage of Left Hand Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039F4ZZ	Drainage of Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039G00Z	Drainage of Intracranial Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039G0ZZ	Drainage of Intracranial Artery, Open Approach	PX	ICD-10-PCS
039G40Z	Drainage of Intracranial Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
039G4ZZ	Drainage of Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039H00Z	Drainage of Right Common Carotid Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039H0ZZ	Drainage of Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS
039H40Z	Drainage of Right Common Carotid Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039H4ZZ	Drainage of Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039J00Z	Drainage of Left Common Carotid Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039J0ZZ	Drainage of Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
039J40Z	Drainage of Left Common Carotid Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039J4ZZ	Drainage of Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039K00Z	Drainage of Right Internal Carotid Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039K0ZZ	Drainage of Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
039K40Z	Drainage of Right Internal Carotid Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039K4ZZ	Drainage of Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039L00Z	Drainage of Left Internal Carotid Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039L0ZZ	Drainage of Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
039L40Z	Drainage of Left Internal Carotid Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039L4ZZ	Drainage of Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039M00Z	Drainage of Right External Carotid Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039M0ZZ	Drainage of Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
039M40Z	Drainage of Right External Carotid Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039M4ZZ	Drainage of Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039N00Z	Drainage of Left External Carotid Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039N0ZZ	Drainage of Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
039N40Z	Drainage of Left External Carotid Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039N4ZZ	Drainage of Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039P00Z	Drainage of Right Vertebral Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039P0ZZ	Drainage of Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
039P40Z	Drainage of Right Vertebral Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039P4ZZ	Drainage of Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039Q00Z	Drainage of Left Vertebral Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039Q0ZZ	Drainage of Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
039Q40Z	Drainage of Left Vertebral Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039Q4ZZ	Drainage of Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039R00Z	Drainage of Face Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039R0ZZ	Drainage of Face Artery, Open Approach	PX	ICD-10-PCS
039R40Z	Drainage of Face Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
039R4ZZ	Drainage of Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039S00Z	Drainage of Right Temporal Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039S0ZZ	Drainage of Right Temporal Artery, Open Approach	PX	ICD-10-PCS
039S40Z	Drainage of Right Temporal Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039S4ZZ	Drainage of Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039T00Z	Drainage of Left Temporal Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039T0ZZ	Drainage of Left Temporal Artery, Open Approach	PX	ICD-10-PCS
039T40Z	Drainage of Left Temporal Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039T4ZZ	Drainage of Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039U00Z	Drainage of Right Thyroid Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039U0ZZ	Drainage of Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
039U40Z	Drainage of Right Thyroid Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039U4ZZ	Drainage of Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039V00Z	Drainage of Left Thyroid Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039V0ZZ	Drainage of Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
039V40Z	Drainage of Left Thyroid Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039V4ZZ	Drainage of Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039Y00Z	Drainage of Upper Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
039Y0ZZ	Drainage of Upper Artery, Open Approach	PX	ICD-10-PCS
039Y40Z	Drainage of Upper Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
039Y4ZZ	Drainage of Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03B00ZZ	Excision of Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03B03ZZ	Excision of Right Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03B04ZZ	Excision of Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03B10ZZ	Excision of Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03B13ZZ	Excision of Left Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03B14ZZ	Excision of Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03B20ZZ	Excision of Innominate Artery, Open Approach	PX	ICD-10-PCS
03B23ZZ	Excision of Innominate Artery, Percutaneous Approach	PX	ICD-10-PCS
03B24ZZ	Excision of Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03B30ZZ	Excision of Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
03B33ZZ	Excision of Right Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03B34ZZ	Excision of Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03B40ZZ	Excision of Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
03B43ZZ	Excision of Left Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03B44ZZ	Excision of Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03B50ZZ	Excision of Right Axillary Artery, Open Approach	PX	ICD-10-PCS
03B53ZZ	Excision of Right Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03B54ZZ	Excision of Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03B60ZZ	Excision of Left Axillary Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03B63ZZ	Excision of Left Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03B64ZZ	Excision of Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03B70ZZ	Excision of Right Brachial Artery, Open Approach	PX	ICD-10-PCS
03B73ZZ	Excision of Right Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03B74ZZ	Excision of Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03B80ZZ	Excision of Left Brachial Artery, Open Approach	PX	ICD-10-PCS
03B83ZZ	Excision of Left Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03B84ZZ	Excision of Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03B90ZZ	Excision of Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
03B93ZZ	Excision of Right Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03B94ZZ	Excision of Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BA0ZZ	Excision of Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
03BA3ZZ	Excision of Left Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03BA4ZZ	Excision of Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BB0ZZ	Excision of Right Radial Artery, Open Approach	PX	ICD-10-PCS
03BB3ZZ	Excision of Right Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03BB4ZZ	Excision of Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BC0ZZ	Excision of Left Radial Artery, Open Approach	PX	ICD-10-PCS
03BC3ZZ	Excision of Left Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03BC4ZZ	Excision of Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BD0ZZ	Excision of Right Hand Artery, Open Approach	PX	ICD-10-PCS
03BD3ZZ	Excision of Right Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03BD4ZZ	Excision of Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BF0ZZ	Excision of Left Hand Artery, Open Approach	PX	ICD-10-PCS
03BF3ZZ	Excision of Left Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03BF4ZZ	Excision of Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BG0ZZ	Excision of Intracranial Artery, Open Approach	PX	ICD-10-PCS
03BG3ZZ	Excision of Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS
03BG4ZZ	Excision of Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BH0ZZ	Excision of Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03BH3ZZ	Excision of Right Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03BH4ZZ	Excision of Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BJ0ZZ	Excision of Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03BJ3ZZ	Excision of Left Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03BJ4ZZ	Excision of Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BK0ZZ	Excision of Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03BK3ZZ	Excision of Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03BK4ZZ	Excision of Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BL0ZZ	Excision of Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03BL3ZZ	Excision of Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03BL4ZZ	Excision of Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BM0ZZ	Excision of Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
03BM3ZZ	Excision of Right External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03BM4ZZ	Excision of Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BN0ZZ	Excision of Left External Carotid Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03BN3ZZ	Excision of Left External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03BN4ZZ	Excision of Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BP0ZZ	Excision of Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
03BP3ZZ	Excision of Right Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03BP4ZZ	Excision of Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BQ0ZZ	Excision of Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
03BQ3ZZ	Excision of Left Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03BQ4ZZ	Excision of Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BR0ZZ	Excision of Face Artery, Open Approach	PX	ICD-10-PCS
03BR3ZZ	Excision of Face Artery, Percutaneous Approach	PX	ICD-10-PCS
03BR4ZZ	Excision of Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BS0ZZ	Excision of Right Temporal Artery, Open Approach	PX	ICD-10-PCS
03BS3ZZ	Excision of Right Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03BS4ZZ	Excision of Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BT0ZZ	Excision of Left Temporal Artery, Open Approach	PX	ICD-10-PCS
03BT3ZZ	Excision of Left Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03BT4ZZ	Excision of Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BU0ZZ	Excision of Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
03BU3ZZ	Excision of Right Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03BU4ZZ	Excision of Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BV0ZZ	Excision of Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
03BV3ZZ	Excision of Left Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03BV4ZZ	Excision of Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03BY0ZZ	Excision of Upper Artery, Open Approach	PX	ICD-10-PCS
03BY3ZZ	Excision of Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03BY4ZZ	Excision of Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C00Z6	Extirpation of Matter from Right Internal Mammary Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03C00ZZ	Extirpation of Matter from Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03C03Z6	Extirpation of Matter from Right Internal Mammary Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03C03ZZ	Extirpation of Matter from Right Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03C04Z6	Extirpation of Matter from Right Internal Mammary Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C04ZZ	Extirpation of Matter from Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C10Z6	Extirpation of Matter from Left Internal Mammary Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03C10ZZ	Extirpation of Matter from Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03C13Z6	Extirpation of Matter from Left Internal Mammary Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03C13ZZ	Extirpation of Matter from Left Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03C14Z6	Extirpation of Matter from Left Internal Mammary Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C14ZZ	Extirpation of Matter from Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C20Z6	Extirpation of Matter from Innominate Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03C20ZZ	Extirpation of Matter from Innominate Artery, Open Approach	PX	ICD-10-PCS
03C23Z6	Extirpation of Matter from Innominate Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03C23ZZ	Extirpation of Matter from Innominate Artery, Percutaneous Approach	PX	ICD-10-PCS
03C24Z6	Extirpation of Matter from Innominate Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C24ZZ	Extirpation of Matter from Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C30Z6	Extirpation of Matter from Right Subclavian Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03C30ZZ	Extirpation of Matter from Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
03C33Z6	Extirpation of Matter from Right Subclavian Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03C33ZZ	Extirpation of Matter from Right Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03C34Z6	Extirpation of Matter from Right Subclavian Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C34ZZ	Extirpation of Matter from Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C40Z6	Extirpation of Matter from Left Subclavian Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03C40ZZ	Extirpation of Matter from Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
03C43Z6	Extirpation of Matter from Left Subclavian Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03C43ZZ	Extirpation of Matter from Left Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03C44Z6	Extirpation of Matter from Left Subclavian Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C44ZZ	Extirpation of Matter from Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C50Z6	Extirpation of Matter from Right Axillary Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03C50ZZ	Extirpation of Matter from Right Axillary Artery, Open Approach	PX	ICD-10-PCS
03C53Z6	Extirpation of Matter from Right Axillary Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03C53ZZ	Extirpation of Matter from Right Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03C54Z6	Extirpation of Matter from Right Axillary Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C54ZZ	Extirpation of Matter from Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C60Z6	Extirpation of Matter from Left Axillary Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03C60ZZ	Extirpation of Matter from Left Axillary Artery, Open Approach	PX	ICD-10-PCS
03C63Z6	Extirpation of Matter from Left Axillary Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03C63ZZ	Extirpation of Matter from Left Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03C64Z6	Extirpation of Matter from Left Axillary Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C64ZZ	Extirpation of Matter from Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C70Z6	Extirpation of Matter from Right Brachial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03C70ZZ	Extirpation of Matter from Right Brachial Artery, Open Approach	PX	ICD-10-PCS
03C73Z6	Extirpation of Matter from Right Brachial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03C73ZZ	Extirpation of Matter from Right Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03C74Z6	Extirpation of Matter from Right Brachial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C74ZZ	Extirpation of Matter from Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C80Z6	Extirpation of Matter from Left Brachial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03C80ZZ	Extirpation of Matter from Left Brachial Artery, Open Approach	PX	ICD-10-PCS
03C83Z6	Extirpation of Matter from Left Brachial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03C83ZZ	Extirpation of Matter from Left Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03C84Z6	Extirpation of Matter from Left Brachial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C84ZZ	Extirpation of Matter from Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C90Z6	Extirpation of Matter from Right Ulnar Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03C90ZZ	Extirpation of Matter from Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
03C93Z6	Extirpation of Matter from Right Ulnar Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03C93ZZ	Extirpation of Matter from Right Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03C94Z6	Extirpation of Matter from Right Ulnar Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03C94ZZ	Extirpation of Matter from Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CA0Z6	Extirpation of Matter from Left Ulnar Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CA0ZZ	Extirpation of Matter from Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
03CA3Z6	Extirpation of Matter from Left Ulnar Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CA3ZZ	Extirpation of Matter from Left Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03CA4Z6	Extirpation of Matter from Left Ulnar Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CA4ZZ	Extirpation of Matter from Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CB0Z6	Extirpation of Matter from Right Radial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CB0ZZ	Extirpation of Matter from Right Radial Artery, Open Approach	PX	ICD-10-PCS
03CB3Z6	Extirpation of Matter from Right Radial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CB3ZZ	Extirpation of Matter from Right Radial Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03CB4Z6	Extirpation of Matter from Right Radial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CB4ZZ	Extirpation of Matter from Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CC0Z6	Extirpation of Matter from Left Radial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CC0ZZ	Extirpation of Matter from Left Radial Artery, Open Approach	PX	ICD-10-PCS
03CC3Z6	Extirpation of Matter from Left Radial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CC3ZZ	Extirpation of Matter from Left Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03CC4Z6	Extirpation of Matter from Left Radial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CC4ZZ	Extirpation of Matter from Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CD0Z6	Extirpation of Matter from Right Hand Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CD0ZZ	Extirpation of Matter from Right Hand Artery, Open Approach	PX	ICD-10-PCS
03CD3Z6	Extirpation of Matter from Right Hand Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CD3ZZ	Extirpation of Matter from Right Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03CD4Z6	Extirpation of Matter from Right Hand Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CD4ZZ	Extirpation of Matter from Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CF0Z6	Extirpation of Matter from Left Hand Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CF0ZZ	Extirpation of Matter from Left Hand Artery, Open Approach	PX	ICD-10-PCS
03CF3Z6	Extirpation of Matter from Left Hand Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CF3ZZ	Extirpation of Matter from Left Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03CF4Z6	Extirpation of Matter from Left Hand Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CF4ZZ	Extirpation of Matter from Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CG0Z6	Extirpation of Matter from Intracranial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CG0ZZ	Extirpation of Matter from Intracranial Artery, Open Approach	PX	ICD-10-PCS
03CG3Z6	Extirpation of Matter from Intracranial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CG3Z7	Extirpation of Matter from Intracranial Artery using Stent Retriever, Percutaneous Approach	PX	ICD-10-PCS
03CG3ZZ	Extirpation of Matter from Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS
03CG4Z6	Extirpation of Matter from Intracranial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CG4ZZ	Extirpation of Matter from Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CH0Z6	Extirpation of Matter from Right Common Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CH0ZZ	Extirpation of Matter from Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03CH3Z6	Extirpation of Matter from Right Common Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CH3Z7	Extirpation of Matter from Right Common Carotid Artery using Stent Retriever, Percutaneous Approach	PX	ICD-10-PCS
03CH3ZZ	Extirpation of Matter from Right Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03CH4Z6	Extirpation of Matter from Right Common Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CH4ZZ	Extirpation of Matter from Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CJ0Z6	Extirpation of Matter from Left Common Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CJ0ZZ	Extirpation of Matter from Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03CJ3Z6	Extirpation of Matter from Left Common Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CJ3Z7	Extirpation of Matter from Left Common Carotid Artery using Stent Retriever, Percutaneous Approach	PX	ICD-10-PCS
03CJ3ZZ	Extirpation of Matter from Left Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03CJ4Z6	Extirpation of Matter from Left Common Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CJ4ZZ	Extirpation of Matter from Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CK0Z6	Extirpation of Matter from Right Internal Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CK0ZZ	Extirpation of Matter from Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03CK3Z6	Extirpation of Matter from Right Internal Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CK3Z7	Extirpation of Matter from Right Internal Carotid Artery using Stent Retriever, Percutaneous Approach	PX	ICD-10-PCS
03CK3ZZ	Extirpation of Matter from Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03CK4Z6	Extirpation of Matter from Right Internal Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CK4ZZ	Extirpation of Matter from Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CL0Z6	Extirpation of Matter from Left Internal Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CL0ZZ	Extirpation of Matter from Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03CL3Z6	Extirpation of Matter from Left Internal Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CL3Z7	Extirpation of Matter from Left Internal Carotid Artery using Stent Retriever, Percutaneous Approach	PX	ICD-10-PCS
03CL3ZZ	Extirpation of Matter from Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03CL4Z6	Extirpation of Matter from Left Internal Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CL4ZZ	Extirpation of Matter from Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CM0Z6	Extirpation of Matter from Right External Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CM0ZZ	Extirpation of Matter from Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
03CM3Z6	Extirpation of Matter from Right External Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CM3Z7	Extirpation of Matter from Right External Carotid Artery using Stent Retriever, Percutaneous Approach	PX	ICD-10-PCS
03CM3ZZ	Extirpation of Matter from Right External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03CM4Z6	Extirpation of Matter from Right External Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CM4ZZ	Extirpation of Matter from Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CN0Z6	Extirpation of Matter from Left External Carotid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CN0ZZ	Extirpation of Matter from Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
03CN3Z6	Extirpation of Matter from Left External Carotid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CN3Z7	Extirpation of Matter from Left External Carotid Artery using Stent Retriever, Percutaneous Approach	PX	ICD-10-PCS
03CN3ZZ	Extirpation of Matter from Left External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03CN4Z6	Extirpation of Matter from Left External Carotid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CN4ZZ	Extirpation of Matter from Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CP0Z6	Extirpation of Matter from Right Vertebral Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CP0ZZ	Extirpation of Matter from Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
03CP3Z6	Extirpation of Matter from Right Vertebral Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CP3Z7	Extirpation of Matter from Right Vertebral Artery using Stent Retriever, Percutaneous Approach	PX	ICD-10-PCS
03CP3ZZ	Extirpation of Matter from Right Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03CP4Z6	Extirpation of Matter from Right Vertebral Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CP4ZZ	Extirpation of Matter from Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CQ0Z6	Extirpation of Matter from Left Vertebral Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CQ0ZZ	Extirpation of Matter from Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
03CQ3Z6	Extirpation of Matter from Left Vertebral Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03CQ3Z7	Extirpation of Matter from Left Vertebral Artery using Stent Retriever, Percutaneous Approach	PX	ICD-10-PCS
03CQ3ZZ	Extirpation of Matter from Left Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03CQ4Z6	Extirpation of Matter from Left Vertebral Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CQ4ZZ	Extirpation of Matter from Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CR0Z6	Extirpation of Matter from Face Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CR0ZZ	Extirpation of Matter from Face Artery, Open Approach	PX	ICD-10-PCS
03CR3Z6	Extirpation of Matter from Face Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CR3ZZ	Extirpation of Matter from Face Artery, Percutaneous Approach	PX	ICD-10-PCS
03CR4Z6	Extirpation of Matter from Face Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CR4ZZ	Extirpation of Matter from Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CS0Z6	Extirpation of Matter from Right Temporal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CS0ZZ	Extirpation of Matter from Right Temporal Artery, Open Approach	PX	ICD-10-PCS
03CS3Z6	Extirpation of Matter from Right Temporal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CS3ZZ	Extirpation of Matter from Right Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03CS4Z6	Extirpation of Matter from Right Temporal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CS4ZZ	Extirpation of Matter from Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CT0Z6	Extirpation of Matter from Left Temporal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CT0ZZ	Extirpation of Matter from Left Temporal Artery, Open Approach	PX	ICD-10-PCS
03CT3Z6	Extirpation of Matter from Left Temporal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CT3ZZ	Extirpation of Matter from Left Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03CT4Z6	Extirpation of Matter from Left Temporal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CT4ZZ	Extirpation of Matter from Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CU0Z6	Extirpation of Matter from Right Thyroid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CU0ZZ	Extirpation of Matter from Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
03CU3Z6	Extirpation of Matter from Right Thyroid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CU3ZZ	Extirpation of Matter from Right Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03CU4Z6	Extirpation of Matter from Right Thyroid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CU4ZZ	Extirpation of Matter from Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CV0Z6	Extirpation of Matter from Left Thyroid Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CV0ZZ	Extirpation of Matter from Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
03CV3Z6	Extirpation of Matter from Left Thyroid Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03CV3ZZ	Extirpation of Matter from Left Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03CV4Z6	Extirpation of Matter from Left Thyroid Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CV4ZZ	Extirpation of Matter from Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CY0Z6	Extirpation of Matter from Upper Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
03CY0ZZ	Extirpation of Matter from Upper Artery, Open Approach	PX	ICD-10-PCS
03CY3Z6	Extirpation of Matter from Upper Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
03CY3ZZ	Extirpation of Matter from Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03CY4Z6	Extirpation of Matter from Upper Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03CY4ZZ	Extirpation of Matter from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03FG3Z0	Fragmentation of Intracranial Artery, Percutaneous Approach, Ultrasonic	PX	ICD-10-PCS
03FG3ZZ	Fragmentation of Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS
03H003Z	Insertion of Infusion Device into Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03H00DZ	Insertion of Intraluminal Device into Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03H03DZ	Insertion of Intraluminal Device into Right Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03H043Z	Insertion of Infusion Device into Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H04DZ	Insertion of Intraluminal Device into Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H103Z	Insertion of Infusion Device into Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03H10DZ	Insertion of Intraluminal Device into Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03H13DZ	Insertion of Intraluminal Device into Left Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03H143Z	Insertion of Infusion Device into Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H14DZ	Insertion of Intraluminal Device into Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H203Z	Insertion of Infusion Device into Innominate Artery, Open Approach	PX	ICD-10-PCS
03H20DZ	Insertion of Intraluminal Device into Innominate Artery, Open Approach	PX	ICD-10-PCS
03H23DZ	Insertion of Intraluminal Device into Innominate Artery, Percutaneous Approach	PX	ICD-10-PCS
03H243Z	Insertion of Infusion Device into Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H24DZ	Insertion of Intraluminal Device into Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H303Z	Insertion of Infusion Device into Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
03H30DZ	Insertion of Intraluminal Device into Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
03H33DZ	Insertion of Intraluminal Device into Right Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03H343Z	Insertion of Infusion Device into Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H34DZ	Insertion of Intraluminal Device into Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H403Z	Insertion of Infusion Device into Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
03H40DZ	Insertion of Intraluminal Device into Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
03H43DZ	Insertion of Intraluminal Device into Left Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03H443Z	Insertion of Infusion Device into Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H44DZ	Insertion of Intraluminal Device into Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H503Z	Insertion of Infusion Device into Right Axillary Artery, Open Approach	PX	ICD-10-PCS
03H50DZ	Insertion of Intraluminal Device into Right Axillary Artery, Open Approach	PX	ICD-10-PCS
03H53DZ	Insertion of Intraluminal Device into Right Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03H543Z	Insertion of Infusion Device into Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H54DZ	Insertion of Intraluminal Device into Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H603Z	Insertion of Infusion Device into Left Axillary Artery, Open Approach	PX	ICD-10-PCS
03H60DZ	Insertion of Intraluminal Device into Left Axillary Artery, Open Approach	PX	ICD-10-PCS
03H63DZ	Insertion of Intraluminal Device into Left Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03H643Z	Insertion of Infusion Device into Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H64DZ	Insertion of Intraluminal Device into Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H703Z	Insertion of Infusion Device into Right Brachial Artery, Open Approach	PX	ICD-10-PCS
03H70DZ	Insertion of Intraluminal Device into Right Brachial Artery, Open Approach	PX	ICD-10-PCS
03H73DZ	Insertion of Intraluminal Device into Right Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03H743Z	Insertion of Infusion Device into Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H74DZ	Insertion of Intraluminal Device into Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H803Z	Insertion of Infusion Device into Left Brachial Artery, Open Approach	PX	ICD-10-PCS
03H80DZ	Insertion of Intraluminal Device into Left Brachial Artery, Open Approach	PX	ICD-10-PCS
03H83DZ	Insertion of Intraluminal Device into Left Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03H843Z	Insertion of Infusion Device into Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H84DZ	Insertion of Intraluminal Device into Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H903Z	Insertion of Infusion Device into Right Ulnar Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03H90DZ	Insertion of Intraluminal Device into Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
03H93DZ	Insertion of Intraluminal Device into Right Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03H943Z	Insertion of Infusion Device into Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03H94DZ	Insertion of Intraluminal Device into Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HA03Z	Insertion of Infusion Device into Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
03HA0DZ	Insertion of Intraluminal Device into Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
03HA3DZ	Insertion of Intraluminal Device into Left Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03HA43Z	Insertion of Infusion Device into Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HA4DZ	Insertion of Intraluminal Device into Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HB03Z	Insertion of Infusion Device into Right Radial Artery, Open Approach	PX	ICD-10-PCS
03HB0DZ	Insertion of Intraluminal Device into Right Radial Artery, Open Approach	PX	ICD-10-PCS
03HB3DZ	Insertion of Intraluminal Device into Right Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03HB43Z	Insertion of Infusion Device into Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HB4DZ	Insertion of Intraluminal Device into Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HC03Z	Insertion of Infusion Device into Left Radial Artery, Open Approach	PX	ICD-10-PCS
03HC0DZ	Insertion of Intraluminal Device into Left Radial Artery, Open Approach	PX	ICD-10-PCS
03HC3DZ	Insertion of Intraluminal Device into Left Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03HC43Z	Insertion of Infusion Device into Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HC4DZ	Insertion of Intraluminal Device into Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HD03Z	Insertion of Infusion Device into Right Hand Artery, Open Approach	PX	ICD-10-PCS
03HD0DZ	Insertion of Intraluminal Device into Right Hand Artery, Open Approach	PX	ICD-10-PCS
03HD3DZ	Insertion of Intraluminal Device into Right Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03HD43Z	Insertion of Infusion Device into Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HD4DZ	Insertion of Intraluminal Device into Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HF03Z	Insertion of Infusion Device into Left Hand Artery, Open Approach	PX	ICD-10-PCS
03HF0DZ	Insertion of Intraluminal Device into Left Hand Artery, Open Approach	PX	ICD-10-PCS
03HF3DZ	Insertion of Intraluminal Device into Left Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03HF43Z	Insertion of Infusion Device into Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HF4DZ	Insertion of Intraluminal Device into Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HG03Z	Insertion of Infusion Device into Intracranial Artery, Open Approach	PX	ICD-10-PCS
03HG0DZ	Insertion of Intraluminal Device into Intracranial Artery, Open Approach	PX	ICD-10-PCS
03HG3DZ	Insertion of Intraluminal Device into Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03HG43Z	Insertion of Infusion Device into Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HG4DZ	Insertion of Intraluminal Device into Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HH03Z	Insertion of Infusion Device into Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03HH0DZ	Insertion of Intraluminal Device into Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03HH3DZ	Insertion of Intraluminal Device into Right Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03HH43Z	Insertion of Infusion Device into Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HH4DZ	Insertion of Intraluminal Device into Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HJ03Z	Insertion of Infusion Device into Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03HJ0DZ	Insertion of Intraluminal Device into Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03HJ3DZ	Insertion of Intraluminal Device into Left Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03HJ43Z	Insertion of Infusion Device into Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HJ4DZ	Insertion of Intraluminal Device into Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HK03Z	Insertion of Infusion Device into Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03HK0DZ	Insertion of Intraluminal Device into Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03HK0MZ	Insertion of Stimulator Lead into Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03HK3DZ	Insertion of Intraluminal Device into Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03HK3MZ	Insertion of Stimulator Lead into Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03HK43Z	Insertion of Infusion Device into Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HK4DZ	Insertion of Intraluminal Device into Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HK4MZ	Insertion of Stimulator Lead into Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HL03Z	Insertion of Infusion Device into Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03HL0DZ	Insertion of Intraluminal Device into Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03HL0MZ	Insertion of Stimulator Lead into Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03HL3DZ	Insertion of Intraluminal Device into Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03HL3MZ	Insertion of Stimulator Lead into Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03HL43Z	Insertion of Infusion Device into Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HL4DZ	Insertion of Intraluminal Device into Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HL4MZ	Insertion of Stimulator Lead into Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HM03Z	Insertion of Infusion Device into Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
03HM0DZ	Insertion of Intraluminal Device into Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
03HM3DZ	Insertion of Intraluminal Device into Right External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03HM43Z	Insertion of Infusion Device into Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HM4DZ	Insertion of Intraluminal Device into Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HN03Z	Insertion of Infusion Device into Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
03HN0DZ	Insertion of Intraluminal Device into Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
03HN3DZ	Insertion of Intraluminal Device into Left External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03HN43Z	Insertion of Infusion Device into Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HN4DZ	Insertion of Intraluminal Device into Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HP03Z	Insertion of Infusion Device into Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
03HP0DZ	Insertion of Intraluminal Device into Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
03HP3DZ	Insertion of Intraluminal Device into Right Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03HP43Z	Insertion of Infusion Device into Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HP4DZ	Insertion of Intraluminal Device into Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HQ03Z	Insertion of Infusion Device into Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
03HQ0DZ	Insertion of Intraluminal Device into Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
03HQ3DZ	Insertion of Intraluminal Device into Left Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03HQ43Z	Insertion of Infusion Device into Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HQ4DZ	Insertion of Intraluminal Device into Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HR03Z	Insertion of Infusion Device into Face Artery, Open Approach	PX	ICD-10-PCS
03HR0DZ	Insertion of Intraluminal Device into Face Artery, Open Approach	PX	ICD-10-PCS
03HR3DZ	Insertion of Intraluminal Device into Face Artery, Percutaneous Approach	PX	ICD-10-PCS
03HR43Z	Insertion of Infusion Device into Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03HR4DZ	Insertion of Intraluminal Device into Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HS03Z	Insertion of Infusion Device into Right Temporal Artery, Open Approach	PX	ICD-10-PCS
03HS0DZ	Insertion of Intraluminal Device into Right Temporal Artery, Open Approach	PX	ICD-10-PCS
03HS3DZ	Insertion of Intraluminal Device into Right Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03HS43Z	Insertion of Infusion Device into Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HS4DZ	Insertion of Intraluminal Device into Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HT03Z	Insertion of Infusion Device into Left Temporal Artery, Open Approach	PX	ICD-10-PCS
03HT0DZ	Insertion of Intraluminal Device into Left Temporal Artery, Open Approach	PX	ICD-10-PCS
03HT3DZ	Insertion of Intraluminal Device into Left Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03HT43Z	Insertion of Infusion Device into Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HT4DZ	Insertion of Intraluminal Device into Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HU03Z	Insertion of Infusion Device into Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
03HU0DZ	Insertion of Intraluminal Device into Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
03HU3DZ	Insertion of Intraluminal Device into Right Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03HU43Z	Insertion of Infusion Device into Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HU4DZ	Insertion of Intraluminal Device into Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HV03Z	Insertion of Infusion Device into Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
03HV0DZ	Insertion of Intraluminal Device into Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
03HV3DZ	Insertion of Intraluminal Device into Left Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03HV43Z	Insertion of Infusion Device into Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HV4DZ	Insertion of Intraluminal Device into Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HY03Z	Insertion of Infusion Device into Upper Artery, Open Approach	PX	ICD-10-PCS
03HY0DZ	Insertion of Intraluminal Device into Upper Artery, Open Approach	PX	ICD-10-PCS
03HY0YZ	Insertion of Other Device into Upper Artery, Open Approach	PX	ICD-10-PCS
03HY3DZ	Insertion of Intraluminal Device into Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03HY43Z	Insertion of Infusion Device into Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HY4DZ	Insertion of Intraluminal Device into Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03HY4YZ	Insertion of Other Device into Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L00CZ	Occlusion of Right Internal Mammary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03L00DZ	Occlusion of Right Internal Mammary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03L00ZZ	Occlusion of Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03L03CZ	Occlusion of Right Internal Mammary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L03DZ	Occlusion of Right Internal Mammary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L03ZZ	Occlusion of Right Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03L04CZ	Occlusion of Right Internal Mammary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L04DZ	Occlusion of Right Internal Mammary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L04ZZ	Occlusion of Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L10CZ	Occlusion of Left Internal Mammary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03L10DZ	Occlusion of Left Internal Mammary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03L10ZZ	Occlusion of Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03L13CZ	Occlusion of Left Internal Mammary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L13DZ	Occlusion of Left Internal Mammary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L13ZZ	Occlusion of Left Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03L14CZ	Occlusion of Left Internal Mammary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L14DZ	Occlusion of Left Internal Mammary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L14ZZ	Occlusion of Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L20CZ	Occlusion of Innominate Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03L20DZ	Occlusion of Innominate Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03L20ZZ	Occlusion of Innominate Artery, Open Approach	PX	ICD-10-PCS
03L23CZ	Occlusion of Innominate Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L23DZ	Occlusion of Innominate Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L23ZZ	Occlusion of Innominate Artery, Percutaneous Approach	PX	ICD-10-PCS
03L24CZ	Occlusion of Innominate Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L24DZ	Occlusion of Innominate Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L24ZZ	Occlusion of Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L30CZ	Occlusion of Right Subclavian Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03L30DZ	Occlusion of Right Subclavian Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03L30ZZ	Occlusion of Right Subclavian Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03L33CZ	Occlusion of Right Subclavian Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L33DZ	Occlusion of Right Subclavian Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L33ZZ	Occlusion of Right Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03L34CZ	Occlusion of Right Subclavian Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L34DZ	Occlusion of Right Subclavian Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L34ZZ	Occlusion of Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L40CZ	Occlusion of Left Subclavian Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03L40DZ	Occlusion of Left Subclavian Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03L40ZZ	Occlusion of Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
03L43CZ	Occlusion of Left Subclavian Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L43DZ	Occlusion of Left Subclavian Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L43ZZ	Occlusion of Left Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03L44CZ	Occlusion of Left Subclavian Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L44DZ	Occlusion of Left Subclavian Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L44ZZ	Occlusion of Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L50CZ	Occlusion of Right Axillary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03L50DZ	Occlusion of Right Axillary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03L50ZZ	Occlusion of Right Axillary Artery, Open Approach	PX	ICD-10-PCS
03L53CZ	Occlusion of Right Axillary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L53DZ	Occlusion of Right Axillary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L53ZZ	Occlusion of Right Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03L54CZ	Occlusion of Right Axillary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L54DZ	Occlusion of Right Axillary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L54ZZ	Occlusion of Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L60CZ	Occlusion of Left Axillary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03L60DZ	Occlusion of Left Axillary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03L60ZZ	Occlusion of Left Axillary Artery, Open Approach	PX	ICD-10-PCS
03L63CZ	Occlusion of Left Axillary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L63DZ	Occlusion of Left Axillary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L63ZZ	Occlusion of Left Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03L64CZ	Occlusion of Left Axillary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L64DZ	Occlusion of Left Axillary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L64ZZ	Occlusion of Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L70CZ	Occlusion of Right Brachial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03L70DZ	Occlusion of Right Brachial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03L70ZZ	Occlusion of Right Brachial Artery, Open Approach	PX	ICD-10-PCS
03L73CZ	Occlusion of Right Brachial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L73DZ	Occlusion of Right Brachial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L73ZZ	Occlusion of Right Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03L74CZ	Occlusion of Right Brachial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L74DZ	Occlusion of Right Brachial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L74ZZ	Occlusion of Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L80CZ	Occlusion of Left Brachial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03L80DZ	Occlusion of Left Brachial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03L80ZZ	Occlusion of Left Brachial Artery, Open Approach	PX	ICD-10-PCS
03L83CZ	Occlusion of Left Brachial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L83DZ	Occlusion of Left Brachial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L83ZZ	Occlusion of Left Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03L84CZ	Occlusion of Left Brachial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L84DZ	Occlusion of Left Brachial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L84ZZ	Occlusion of Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L90CZ	Occlusion of Right Ulnar Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03L90DZ	Occlusion of Right Ulnar Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03L90ZZ	Occlusion of Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
03L93CZ	Occlusion of Right Ulnar Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L93DZ	Occlusion of Right Ulnar Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03L93ZZ	Occlusion of Right Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03L94CZ	Occlusion of Right Ulnar Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L94DZ	Occlusion of Right Ulnar Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03L94ZZ	Occlusion of Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LA0CZ	Occlusion of Left Ulnar Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03LA0DZ	Occlusion of Left Ulnar Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LA0ZZ	Occlusion of Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
03LA3CZ	Occlusion of Left Ulnar Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LA3DZ	Occlusion of Left Ulnar Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LA3ZZ	Occlusion of Left Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03LA4CZ	Occlusion of Left Ulnar Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LA4DZ	Occlusion of Left Ulnar Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LA4ZZ	Occlusion of Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LB0CZ	Occlusion of Right Radial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LB0DZ	Occlusion of Right Radial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LB0ZZ	Occlusion of Right Radial Artery, Open Approach	PX	ICD-10-PCS
03LB3CZ	Occlusion of Right Radial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LB3DZ	Occlusion of Right Radial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LB3ZZ	Occlusion of Right Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03LB4CZ	Occlusion of Right Radial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LB4DZ	Occlusion of Right Radial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LB4ZZ	Occlusion of Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LC0CZ	Occlusion of Left Radial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LC0DZ	Occlusion of Left Radial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LC0ZZ	Occlusion of Left Radial Artery, Open Approach	PX	ICD-10-PCS
03LC3CZ	Occlusion of Left Radial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LC3DZ	Occlusion of Left Radial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LC3ZZ	Occlusion of Left Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03LC4CZ	Occlusion of Left Radial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LC4DZ	Occlusion of Left Radial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LC4ZZ	Occlusion of Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LD0CZ	Occlusion of Right Hand Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LD0DZ	Occlusion of Right Hand Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LD0ZZ	Occlusion of Right Hand Artery, Open Approach	PX	ICD-10-PCS
03LD3CZ	Occlusion of Right Hand Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LD3DZ	Occlusion of Right Hand Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LD3ZZ	Occlusion of Right Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03LD4CZ	Occlusion of Right Hand Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03LD4DZ	Occlusion of Right Hand Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LD4ZZ	Occlusion of Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LF0CZ	Occlusion of Left Hand Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LF0DZ	Occlusion of Left Hand Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LF0ZZ	Occlusion of Left Hand Artery, Open Approach	PX	ICD-10-PCS
03LF3CZ	Occlusion of Left Hand Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LF3DZ	Occlusion of Left Hand Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LF3ZZ	Occlusion of Left Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03LF4CZ	Occlusion of Left Hand Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LF4DZ	Occlusion of Left Hand Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LF4ZZ	Occlusion of Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LG0BZ	Occlusion of Intracranial Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LG0CZ	Occlusion of Intracranial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LG0DZ	Occlusion of Intracranial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LG0ZZ	Occlusion of Intracranial Artery, Open Approach	PX	ICD-10-PCS
03LG3BZ	Occlusion of Intracranial Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LG3CZ	Occlusion of Intracranial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LG3DZ	Occlusion of Intracranial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LG3ZZ	Occlusion of Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS
03LG4BZ	Occlusion of Intracranial Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LG4CZ	Occlusion of Intracranial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LG4DZ	Occlusion of Intracranial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LG4ZZ	Occlusion of Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LH0BZ	Occlusion of Right Common Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LH0CZ	Occlusion of Right Common Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LH0DZ	Occlusion of Right Common Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LH0ZZ	Occlusion of Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03LH3BZ	Occlusion of Right Common Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LH3CZ	Occlusion of Right Common Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03LH3DZ	Occlusion of Right Common Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LH3ZZ	Occlusion of Right Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03LH4BZ	Occlusion of Right Common Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LH4CZ	Occlusion of Right Common Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LH4DZ	Occlusion of Right Common Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LH4ZZ	Occlusion of Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LJ0BZ	Occlusion of Left Common Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LJ0CZ	Occlusion of Left Common Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LJ0DZ	Occlusion of Left Common Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LJ0ZZ	Occlusion of Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03LJ3BZ	Occlusion of Left Common Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LJ3CZ	Occlusion of Left Common Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LJ3DZ	Occlusion of Left Common Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LJ3ZZ	Occlusion of Left Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03LJ4BZ	Occlusion of Left Common Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LJ4CZ	Occlusion of Left Common Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LJ4DZ	Occlusion of Left Common Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LJ4ZZ	Occlusion of Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LK0BZ	Occlusion of Right Internal Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LK0CZ	Occlusion of Right Internal Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LK0DZ	Occlusion of Right Internal Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LK0ZZ	Occlusion of Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03LK3BZ	Occlusion of Right Internal Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LK3CZ	Occlusion of Right Internal Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LK3DZ	Occlusion of Right Internal Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LK3ZZ	Occlusion of Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03LK4BZ	Occlusion of Right Internal Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LK4CZ	Occlusion of Right Internal Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LK4DZ	Occlusion of Right Internal Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LK4ZZ	Occlusion of Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LL0BZ	Occlusion of Left Internal Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LL0CZ	Occlusion of Left Internal Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LL0DZ	Occlusion of Left Internal Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LL0ZZ	Occlusion of Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03LL3BZ	Occlusion of Left Internal Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LL3CZ	Occlusion of Left Internal Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LL3DZ	Occlusion of Left Internal Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LL3ZZ	Occlusion of Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03LL4BZ	Occlusion of Left Internal Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LL4CZ	Occlusion of Left Internal Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LL4DZ	Occlusion of Left Internal Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LL4ZZ	Occlusion of Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LM0BZ	Occlusion of Right External Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LM0CZ	Occlusion of Right External Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LM0DZ	Occlusion of Right External Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LM0ZZ	Occlusion of Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
03LM3BZ	Occlusion of Right External Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LM3CZ	Occlusion of Right External Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LM3DZ	Occlusion of Right External Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LM3ZZ	Occlusion of Right External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03LM4BZ	Occlusion of Right External Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03LM4CZ	Occlusion of Right External Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LM4DZ	Occlusion of Right External Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LM4ZZ	Occlusion of Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LN0BZ	Occlusion of Left External Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LN0CZ	Occlusion of Left External Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LN0DZ	Occlusion of Left External Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LN0ZZ	Occlusion of Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
03LN3BZ	Occlusion of Left External Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LN3CZ	Occlusion of Left External Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LN3DZ	Occlusion of Left External Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LN3ZZ	Occlusion of Left External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03LN4BZ	Occlusion of Left External Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LN4CZ	Occlusion of Left External Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LN4DZ	Occlusion of Left External Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LN4ZZ	Occlusion of Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LP0BZ	Occlusion of Right Vertebral Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LP0CZ	Occlusion of Right Vertebral Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LP0DZ	Occlusion of Right Vertebral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LP0ZZ	Occlusion of Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
03LP3BZ	Occlusion of Right Vertebral Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LP3CZ	Occlusion of Right Vertebral Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LP3DZ	Occlusion of Right Vertebral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LP3ZZ	Occlusion of Right Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03LP4BZ	Occlusion of Right Vertebral Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LP4CZ	Occlusion of Right Vertebral Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LP4DZ	Occlusion of Right Vertebral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LP4ZZ	Occlusion of Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03LQ0BZ	Occlusion of Left Vertebral Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LQ0CZ	Occlusion of Left Vertebral Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LQ0DZ	Occlusion of Left Vertebral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LQ0ZZ	Occlusion of Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
03LQ3BZ	Occlusion of Left Vertebral Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LQ3CZ	Occlusion of Left Vertebral Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LQ3DZ	Occlusion of Left Vertebral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LQ3ZZ	Occlusion of Left Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03LQ4BZ	Occlusion of Left Vertebral Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LQ4CZ	Occlusion of Left Vertebral Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LQ4DZ	Occlusion of Left Vertebral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LQ4ZZ	Occlusion of Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LR0CZ	Occlusion of Face Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LR0DZ	Occlusion of Face Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LR0ZZ	Occlusion of Face Artery, Open Approach	PX	ICD-10-PCS
03LR3CZ	Occlusion of Face Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LR3DZ	Occlusion of Face Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LR3ZZ	Occlusion of Face Artery, Percutaneous Approach	PX	ICD-10-PCS
03LR4CZ	Occlusion of Face Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LR4DZ	Occlusion of Face Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LR4ZZ	Occlusion of Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LS0CZ	Occlusion of Right Temporal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LS0DZ	Occlusion of Right Temporal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LS0ZZ	Occlusion of Right Temporal Artery, Open Approach	PX	ICD-10-PCS
03LS3CZ	Occlusion of Right Temporal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LS3DZ	Occlusion of Right Temporal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LS3ZZ	Occlusion of Right Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03LS4CZ	Occlusion of Right Temporal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LS4DZ	Occlusion of Right Temporal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LS4ZZ	Occlusion of Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LT0CZ	Occlusion of Left Temporal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LT0DZ	Occlusion of Left Temporal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03LT0ZZ	Occlusion of Left Temporal Artery, Open Approach	PX	ICD-10-PCS
03LT3CZ	Occlusion of Left Temporal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LT3DZ	Occlusion of Left Temporal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LT3ZZ	Occlusion of Left Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03LT4CZ	Occlusion of Left Temporal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LT4DZ	Occlusion of Left Temporal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LT4ZZ	Occlusion of Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LU0CZ	Occlusion of Right Thyroid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LU0DZ	Occlusion of Right Thyroid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LU0ZZ	Occlusion of Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
03LU3CZ	Occlusion of Right Thyroid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LU3DZ	Occlusion of Right Thyroid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LU3ZZ	Occlusion of Right Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03LU4CZ	Occlusion of Right Thyroid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LU4DZ	Occlusion of Right Thyroid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LU4ZZ	Occlusion of Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LV0CZ	Occlusion of Left Thyroid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LV0DZ	Occlusion of Left Thyroid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LV0ZZ	Occlusion of Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
03LV3CZ	Occlusion of Left Thyroid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LV3DZ	Occlusion of Left Thyroid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LV3ZZ	Occlusion of Left Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03LV4CZ	Occlusion of Left Thyroid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LV4DZ	Occlusion of Left Thyroid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LV4ZZ	Occlusion of Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LY0CZ	Occlusion of Upper Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03LY0DZ	Occlusion of Upper Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03LY0ZZ	Occlusion of Upper Artery, Open Approach	PX	ICD-10-PCS
03LY3CZ	Occlusion of Upper Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LY3DZ	Occlusion of Upper Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03LY3ZZ	Occlusion of Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03LY4CZ	Occlusion of Upper Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03LY4DZ	Occlusion of Upper Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03LY4ZZ	Occlusion of Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03N00ZZ	Release Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03N03ZZ	Release Right Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03N04ZZ	Release Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03N10ZZ	Release Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03N13ZZ	Release Left Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03N14ZZ	Release Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03N20ZZ	Release Innominate Artery, Open Approach	PX	ICD-10-PCS
03N23ZZ	Release Innominate Artery, Percutaneous Approach	PX	ICD-10-PCS
03N24ZZ	Release Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03N30ZZ	Release Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
03N33ZZ	Release Right Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03N34ZZ	Release Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03N40ZZ	Release Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
03N43ZZ	Release Left Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03N44ZZ	Release Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03N50ZZ	Release Right Axillary Artery, Open Approach	PX	ICD-10-PCS
03N53ZZ	Release Right Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03N54ZZ	Release Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03N60ZZ	Release Left Axillary Artery, Open Approach	PX	ICD-10-PCS
03N63ZZ	Release Left Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03N64ZZ	Release Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03N70ZZ	Release Right Brachial Artery, Open Approach	PX	ICD-10-PCS
03N73ZZ	Release Right Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03N74ZZ	Release Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03N80ZZ	Release Left Brachial Artery, Open Approach	PX	ICD-10-PCS
03N83ZZ	Release Left Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03N84ZZ	Release Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03N90ZZ	Release Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
03N93ZZ	Release Right Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03N94ZZ	Release Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NA0ZZ	Release Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
03NA3ZZ	Release Left Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03NA4ZZ	Release Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NB0ZZ	Release Right Radial Artery, Open Approach	PX	ICD-10-PCS
03NB3ZZ	Release Right Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03NB4ZZ	Release Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NC0ZZ	Release Left Radial Artery, Open Approach	PX	ICD-10-PCS
03NC3ZZ	Release Left Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03NC4ZZ	Release Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03ND0ZZ	Release Right Hand Artery, Open Approach	PX	ICD-10-PCS
03ND3ZZ	Release Right Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03ND4ZZ	Release Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03NF0ZZ	Release Left Hand Artery, Open Approach	PX	ICD-10-PCS
03NF3ZZ	Release Left Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03NF4ZZ	Release Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NG0ZZ	Release Intracranial Artery, Open Approach	PX	ICD-10-PCS
03NG3ZZ	Release Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS
03NG4ZZ	Release Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NH0ZZ	Release Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03NH3ZZ	Release Right Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03NH4ZZ	Release Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NJ0ZZ	Release Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03NJ3ZZ	Release Left Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03NJ4ZZ	Release Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NK0ZZ	Release Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03NK3ZZ	Release Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03NK4ZZ	Release Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NL0ZZ	Release Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03NL3ZZ	Release Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03NL4ZZ	Release Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NM0ZZ	Release Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
03NM3ZZ	Release Right External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03NM4ZZ	Release Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NN0ZZ	Release Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
03NN3ZZ	Release Left External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03NN4ZZ	Release Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NP0ZZ	Release Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
03NP3ZZ	Release Right Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03NP4ZZ	Release Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NQ0ZZ	Release Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
03NQ3ZZ	Release Left Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03NQ4ZZ	Release Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NR0ZZ	Release Face Artery, Open Approach	PX	ICD-10-PCS
03NR3ZZ	Release Face Artery, Percutaneous Approach	PX	ICD-10-PCS
03NR4ZZ	Release Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NS0ZZ	Release Right Temporal Artery, Open Approach	PX	ICD-10-PCS
03NS3ZZ	Release Right Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03NS4ZZ	Release Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NT0ZZ	Release Left Temporal Artery, Open Approach	PX	ICD-10-PCS
03NT3ZZ	Release Left Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03NT4ZZ	Release Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NU0ZZ	Release Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
03NU3ZZ	Release Right Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03NU4ZZ	Release Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03NV0ZZ	Release Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
03NV3ZZ	Release Left Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03NV4ZZ	Release Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03NY0ZZ	Release Upper Artery, Open Approach	PX	ICD-10-PCS
03NY3ZZ	Release Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03NY4ZZ	Release Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03PY00Z	Removal of Drainage Device from Upper Artery, Open Approach	PX	ICD-10-PCS
03PY02Z	Removal of Monitoring Device from Upper Artery, Open Approach	PX	ICD-10-PCS
03PY03Z	Removal of Infusion Device from Upper Artery, Open Approach	PX	ICD-10-PCS
03PY07Z	Removal of Autologous Tissue Substitute from Upper Artery, Open Approach	PX	ICD-10-PCS
03PY0CZ	Removal of Extraluminal Device from Upper Artery, Open Approach	PX	ICD-10-PCS
03PY0DZ	Removal of Intraluminal Device from Upper Artery, Open Approach	PX	ICD-10-PCS
03PY0JZ	Removal of Synthetic Substitute from Upper Artery, Open Approach	PX	ICD-10-PCS
03PY0KZ	Removal of Nonautologous Tissue Substitute from Upper Artery, Open Approach	PX	ICD-10-PCS
03PY0MZ	Removal of Stimulator Lead from Upper Artery, Open Approach	PX	ICD-10-PCS
03PY0YZ	Removal of Other Device from Upper Artery, Open Approach	PX	ICD-10-PCS
03PY37Z	Removal of Autologous Tissue Substitute from Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03PY3CZ	Removal of Extraluminal Device from Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03PY3JZ	Removal of Synthetic Substitute from Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03PY3KZ	Removal of Nonautologous Tissue Substitute from Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03PY3MZ	Removal of Stimulator Lead from Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03PY40Z	Removal of Drainage Device from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03PY42Z	Removal of Monitoring Device from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03PY43Z	Removal of Infusion Device from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03PY47Z	Removal of Autologous Tissue Substitute from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03PY4CZ	Removal of Extraluminal Device from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03PY4DZ	Removal of Intraluminal Device from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03PY4JZ	Removal of Synthetic Substitute from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03PY4KZ	Removal of Nonautologous Tissue Substitute from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03PY4MZ	Removal of Stimulator Lead from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03PY4YZ	Removal of Other Device from Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03Q00ZZ	Repair Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03Q03ZZ	Repair Right Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03Q04ZZ	Repair Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03Q10ZZ	Repair Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03Q13ZZ	Repair Left Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03Q14ZZ	Repair Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03Q20ZZ	Repair Innominate Artery, Open Approach	PX	ICD-10-PCS
03Q23ZZ	Repair Innominate Artery, Percutaneous Approach	PX	ICD-10-PCS
03Q24ZZ	Repair Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03Q30ZZ	Repair Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
03Q33ZZ	Repair Right Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03Q34ZZ	Repair Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03Q40ZZ	Repair Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
03Q43ZZ	Repair Left Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03Q44ZZ	Repair Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03Q50ZZ	Repair Right Axillary Artery, Open Approach	PX	ICD-10-PCS
03Q53ZZ	Repair Right Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03Q54ZZ	Repair Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03Q60ZZ	Repair Left Axillary Artery, Open Approach	PX	ICD-10-PCS
03Q63ZZ	Repair Left Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03Q64ZZ	Repair Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03Q70ZZ	Repair Right Brachial Artery, Open Approach	PX	ICD-10-PCS
03Q73ZZ	Repair Right Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03Q74ZZ	Repair Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03Q80ZZ	Repair Left Brachial Artery, Open Approach	PX	ICD-10-PCS
03Q83ZZ	Repair Left Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03Q84ZZ	Repair Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03Q90ZZ	Repair Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
03Q93ZZ	Repair Right Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03Q94ZZ	Repair Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QA0ZZ	Repair Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
03QA3ZZ	Repair Left Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03QA4ZZ	Repair Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QB0ZZ	Repair Right Radial Artery, Open Approach	PX	ICD-10-PCS
03QB3ZZ	Repair Right Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03QB4ZZ	Repair Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QC0ZZ	Repair Left Radial Artery, Open Approach	PX	ICD-10-PCS
03QC3ZZ	Repair Left Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03QC4ZZ	Repair Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QD0ZZ	Repair Right Hand Artery, Open Approach	PX	ICD-10-PCS
03QD3ZZ	Repair Right Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03QD4ZZ	Repair Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QF0ZZ	Repair Left Hand Artery, Open Approach	PX	ICD-10-PCS
03QF3ZZ	Repair Left Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03QF4ZZ	Repair Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QG0ZZ	Repair Intracranial Artery, Open Approach	PX	ICD-10-PCS
03QG3ZZ	Repair Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS
03QG4ZZ	Repair Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QH0ZZ	Repair Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03QH3ZZ	Repair Right Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03QH4ZZ	Repair Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QJ0ZZ	Repair Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03QJ3ZZ	Repair Left Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03QJ4ZZ	Repair Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QK0ZZ	Repair Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03QK3ZZ	Repair Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03QK4ZZ	Repair Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QL0ZZ	Repair Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03QL3ZZ	Repair Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03QL4ZZ	Repair Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QM0ZZ	Repair Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
03QM3ZZ	Repair Right External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03QM4ZZ	Repair Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QN0ZZ	Repair Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
03QN3ZZ	Repair Left External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03QN4ZZ	Repair Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QP0ZZ	Repair Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
03QP3ZZ	Repair Right Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03QP4ZZ	Repair Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QQ0ZZ	Repair Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
03QQ3ZZ	Repair Left Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03QQ4ZZ	Repair Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QR0ZZ	Repair Face Artery, Open Approach	PX	ICD-10-PCS
03QR3ZZ	Repair Face Artery, Percutaneous Approach	PX	ICD-10-PCS
03QR4ZZ	Repair Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QS0ZZ	Repair Right Temporal Artery, Open Approach	PX	ICD-10-PCS
03QS3ZZ	Repair Right Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03QS4ZZ	Repair Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QT0ZZ	Repair Left Temporal Artery, Open Approach	PX	ICD-10-PCS
03QT3ZZ	Repair Left Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03QT4ZZ	Repair Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QU0ZZ	Repair Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
03QU3ZZ	Repair Right Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03QU4ZZ	Repair Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QV0ZZ	Repair Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
03QV3ZZ	Repair Left Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03QV4ZZ	Repair Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03QY0ZZ	Repair Upper Artery, Open Approach	PX	ICD-10-PCS
03QY3ZZ	Repair Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03QY4ZZ	Repair Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R007Z	Replacement of Right Internal Mammary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R00JZ	Replacement of Right Internal Mammary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03R00KZ	Replacement of Right Internal Mammary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R047Z	Replacement of Right Internal Mammary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R04JZ	Replacement of Right Internal Mammary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R04KZ	Replacement of Right Internal Mammary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R107Z	Replacement of Left Internal Mammary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R10JZ	Replacement of Left Internal Mammary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03R10KZ	Replacement of Left Internal Mammary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R147Z	Replacement of Left Internal Mammary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R14JZ	Replacement of Left Internal Mammary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R14KZ	Replacement of Left Internal Mammary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R207Z	Replacement of Innominate Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R20JZ	Replacement of Innominate Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03R20KZ	Replacement of Innominate Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R247Z	Replacement of Innominate Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R24JZ	Replacement of Innominate Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R24KZ	Replacement of Innominate Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R307Z	Replacement of Right Subclavian Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R30JZ	Replacement of Right Subclavian Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03R30KZ	Replacement of Right Subclavian Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R347Z	Replacement of Right Subclavian Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R34JZ	Replacement of Right Subclavian Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R34KZ	Replacement of Right Subclavian Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R407Z	Replacement of Left Subclavian Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03R40JZ	Replacement of Left Subclavian Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03R40KZ	Replacement of Left Subclavian Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R447Z	Replacement of Left Subclavian Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R44JZ	Replacement of Left Subclavian Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R44KZ	Replacement of Left Subclavian Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R507Z	Replacement of Right Axillary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R50JZ	Replacement of Right Axillary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03R50KZ	Replacement of Right Axillary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R547Z	Replacement of Right Axillary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R54JZ	Replacement of Right Axillary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R54KZ	Replacement of Right Axillary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R607Z	Replacement of Left Axillary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R60JZ	Replacement of Left Axillary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03R60KZ	Replacement of Left Axillary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R647Z	Replacement of Left Axillary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R64JZ	Replacement of Left Axillary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R64KZ	Replacement of Left Axillary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R707Z	Replacement of Right Brachial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R70JZ	Replacement of Right Brachial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03R70KZ	Replacement of Right Brachial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R747Z	Replacement of Right Brachial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R74JZ	Replacement of Right Brachial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R74KZ	Replacement of Right Brachial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R807Z	Replacement of Left Brachial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03R80JZ	Replacement of Left Brachial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03R80KZ	Replacement of Left Brachial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R847Z	Replacement of Left Brachial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R84JZ	Replacement of Left Brachial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R84KZ	Replacement of Left Brachial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R907Z	Replacement of Right Ulnar Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R90JZ	Replacement of Right Ulnar Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03R90KZ	Replacement of Right Ulnar Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03R947Z	Replacement of Right Ulnar Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R94JZ	Replacement of Right Ulnar Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03R94KZ	Replacement of Right Ulnar Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RA07Z	Replacement of Left Ulnar Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RA0JZ	Replacement of Left Ulnar Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RA0KZ	Replacement of Left Ulnar Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RA47Z	Replacement of Left Ulnar Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RA4JZ	Replacement of Left Ulnar Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RA4KZ	Replacement of Left Ulnar Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RB07Z	Replacement of Right Radial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RB0JZ	Replacement of Right Radial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RB0KZ	Replacement of Right Radial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RB47Z	Replacement of Right Radial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RB4JZ	Replacement of Right Radial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RB4KZ	Replacement of Right Radial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RC07Z	Replacement of Left Radial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RC0JZ	Replacement of Left Radial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03RC0KZ	Replacement of Left Radial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RC47Z	Replacement of Left Radial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RC4JZ	Replacement of Left Radial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RC4KZ	Replacement of Left Radial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RD07Z	Replacement of Right Hand Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RD0JZ	Replacement of Right Hand Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RD0KZ	Replacement of Right Hand Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RD47Z	Replacement of Right Hand Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RD4JZ	Replacement of Right Hand Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RD4KZ	Replacement of Right Hand Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RF07Z	Replacement of Left Hand Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RF0JZ	Replacement of Left Hand Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RF0KZ	Replacement of Left Hand Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RF47Z	Replacement of Left Hand Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RF4JZ	Replacement of Left Hand Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RF4KZ	Replacement of Left Hand Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RG07Z	Replacement of Intracranial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RG0JZ	Replacement of Intracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RG0KZ	Replacement of Intracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RG47Z	Replacement of Intracranial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RG4JZ	Replacement of Intracranial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RG4KZ	Replacement of Intracranial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RH07Z	Replacement of Right Common Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RH0JZ	Replacement of Right Common Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03RH0KZ	Replacement of Right Common Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RH47Z	Replacement of Right Common Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RH4JZ	Replacement of Right Common Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RH4KZ	Replacement of Right Common Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RJ07Z	Replacement of Left Common Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RJ0JZ	Replacement of Left Common Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RJ0KZ	Replacement of Left Common Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RJ47Z	Replacement of Left Common Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RJ4JZ	Replacement of Left Common Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RJ4KZ	Replacement of Left Common Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RK07Z	Replacement of Right Internal Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RK0JZ	Replacement of Right Internal Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RK0KZ	Replacement of Right Internal Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RK47Z	Replacement of Right Internal Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RK4JZ	Replacement of Right Internal Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RK4KZ	Replacement of Right Internal Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RL07Z	Replacement of Left Internal Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RL0JZ	Replacement of Left Internal Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RL0KZ	Replacement of Left Internal Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RL47Z	Replacement of Left Internal Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RL4JZ	Replacement of Left Internal Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RL4KZ	Replacement of Left Internal Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03RM07Z	Replacement of Right External Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RM0JZ	Replacement of Right External Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RM0KZ	Replacement of Right External Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RM47Z	Replacement of Right External Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RM4JZ	Replacement of Right External Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RM4KZ	Replacement of Right External Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RN07Z	Replacement of Left External Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RN0JZ	Replacement of Left External Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RN0KZ	Replacement of Left External Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RN47Z	Replacement of Left External Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RN4JZ	Replacement of Left External Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RN4KZ	Replacement of Left External Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RP07Z	Replacement of Right Vertebral Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RP0JZ	Replacement of Right Vertebral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RP0KZ	Replacement of Right Vertebral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RP47Z	Replacement of Right Vertebral Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RP4JZ	Replacement of Right Vertebral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RP4KZ	Replacement of Right Vertebral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RQ07Z	Replacement of Left Vertebral Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RQ0JZ	Replacement of Left Vertebral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RQ0KZ	Replacement of Left Vertebral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RQ47Z	Replacement of Left Vertebral Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RQ4JZ	Replacement of Left Vertebral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03RQ4KZ	Replacement of Left Vertebral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RR07Z	Replacement of Face Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RR0JZ	Replacement of Face Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RR0KZ	Replacement of Face Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RR47Z	Replacement of Face Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RR4JZ	Replacement of Face Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RR4KZ	Replacement of Face Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RS07Z	Replacement of Right Temporal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RS0JZ	Replacement of Right Temporal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RS0KZ	Replacement of Right Temporal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RS47Z	Replacement of Right Temporal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RS4JZ	Replacement of Right Temporal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RS4KZ	Replacement of Right Temporal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RT07Z	Replacement of Left Temporal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RT0JZ	Replacement of Left Temporal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RT0KZ	Replacement of Left Temporal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RT47Z	Replacement of Left Temporal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RT4JZ	Replacement of Left Temporal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RT4KZ	Replacement of Left Temporal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RU07Z	Replacement of Right Thyroid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RU0JZ	Replacement of Right Thyroid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RU0KZ	Replacement of Right Thyroid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RU47Z	Replacement of Right Thyroid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RU4JZ	Replacement of Right Thyroid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03RU4KZ	Replacement of Right Thyroid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RV07Z	Replacement of Left Thyroid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RV0JZ	Replacement of Left Thyroid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RV0KZ	Replacement of Left Thyroid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RV47Z	Replacement of Left Thyroid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RV4JZ	Replacement of Left Thyroid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RV4KZ	Replacement of Left Thyroid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RY07Z	Replacement of Upper Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RY0JZ	Replacement of Upper Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03RY0KZ	Replacement of Upper Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03RY47Z	Replacement of Upper Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RY4JZ	Replacement of Upper Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03RY4KZ	Replacement of Upper Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03S00ZZ	Reposition Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03S03ZZ	Reposition Right Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03S04ZZ	Reposition Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03S10ZZ	Reposition Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03S13ZZ	Reposition Left Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03S14ZZ	Reposition Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03S20ZZ	Reposition Innominate Artery, Open Approach	PX	ICD-10-PCS
03S23ZZ	Reposition Innominate Artery, Percutaneous Approach	PX	ICD-10-PCS
03S24ZZ	Reposition Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03S30ZZ	Reposition Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
03S33ZZ	Reposition Right Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03S34ZZ	Reposition Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03S40ZZ	Reposition Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
03S43ZZ	Reposition Left Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03S44ZZ	Reposition Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03S50ZZ	Reposition Right Axillary Artery, Open Approach	PX	ICD-10-PCS
03S53ZZ	Reposition Right Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03S54ZZ	Reposition Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03S60ZZ	Reposition Left Axillary Artery, Open Approach	PX	ICD-10-PCS
03S63ZZ	Reposition Left Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03S64ZZ	Reposition Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03S70ZZ	Reposition Right Brachial Artery, Open Approach	PX	ICD-10-PCS
03S73ZZ	Reposition Right Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03S74ZZ	Reposition Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03S80ZZ	Reposition Left Brachial Artery, Open Approach	PX	ICD-10-PCS
03S83ZZ	Reposition Left Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03S84ZZ	Reposition Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03S90ZZ	Reposition Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
03S93ZZ	Reposition Right Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03S94ZZ	Reposition Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SA0ZZ	Reposition Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
03SA3ZZ	Reposition Left Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03SA4ZZ	Reposition Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SB0ZZ	Reposition Right Radial Artery, Open Approach	PX	ICD-10-PCS
03SB3ZZ	Reposition Right Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03SB4ZZ	Reposition Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SC0ZZ	Reposition Left Radial Artery, Open Approach	PX	ICD-10-PCS
03SC3ZZ	Reposition Left Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03SC4ZZ	Reposition Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SD0ZZ	Reposition Right Hand Artery, Open Approach	PX	ICD-10-PCS
03SD3ZZ	Reposition Right Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03SD4ZZ	Reposition Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SF0ZZ	Reposition Left Hand Artery, Open Approach	PX	ICD-10-PCS
03SF3ZZ	Reposition Left Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03SF4ZZ	Reposition Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SG0ZZ	Reposition Intracranial Artery, Open Approach	PX	ICD-10-PCS
03SG3ZZ	Reposition Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS
03SG4ZZ	Reposition Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SH0ZZ	Reposition Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03SH3ZZ	Reposition Right Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03SH4ZZ	Reposition Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SJ0ZZ	Reposition Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03SJ3ZZ	Reposition Left Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03SJ4ZZ	Reposition Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SK0ZZ	Reposition Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03SK3ZZ	Reposition Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03SK4ZZ	Reposition Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SL0ZZ	Reposition Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03SL3ZZ	Reposition Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03SL4ZZ	Reposition Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SM0ZZ	Reposition Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
03SM3ZZ	Reposition Right External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03SM4ZZ	Reposition Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SN0ZZ	Reposition Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
03SN3ZZ	Reposition Left External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03SN4ZZ	Reposition Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03SP0ZZ	Reposition Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
03SP3ZZ	Reposition Right Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03SP4ZZ	Reposition Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SQ0ZZ	Reposition Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
03SQ3ZZ	Reposition Left Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03SQ4ZZ	Reposition Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SR0ZZ	Reposition Face Artery, Open Approach	PX	ICD-10-PCS
03SR3ZZ	Reposition Face Artery, Percutaneous Approach	PX	ICD-10-PCS
03SR4ZZ	Reposition Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SS0ZZ	Reposition Right Temporal Artery, Open Approach	PX	ICD-10-PCS
03SS3ZZ	Reposition Right Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03SS4ZZ	Reposition Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03ST0ZZ	Reposition Left Temporal Artery, Open Approach	PX	ICD-10-PCS
03ST3ZZ	Reposition Left Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03ST4ZZ	Reposition Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SU0ZZ	Reposition Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
03SU3ZZ	Reposition Right Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03SU4ZZ	Reposition Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SV0ZZ	Reposition Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
03SV3ZZ	Reposition Left Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03SV4ZZ	Reposition Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03SY0ZZ	Reposition Upper Artery, Open Approach	PX	ICD-10-PCS
03SY3ZZ	Reposition Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03SY4ZZ	Reposition Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U007Z	Supplement Right Internal Mammary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U00JZ	Supplement Right Internal Mammary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03U00KZ	Supplement Right Internal Mammary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U037Z	Supplement Right Internal Mammary Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U03JZ	Supplement Right Internal Mammary Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U03KZ	Supplement Right Internal Mammary Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U047Z	Supplement Right Internal Mammary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U04JZ	Supplement Right Internal Mammary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U04KZ	Supplement Right Internal Mammary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U107Z	Supplement Left Internal Mammary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03U10JZ	Supplement Left Internal Mammary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03U10KZ	Supplement Left Internal Mammary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U137Z	Supplement Left Internal Mammary Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U13JZ	Supplement Left Internal Mammary Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U13KZ	Supplement Left Internal Mammary Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U147Z	Supplement Left Internal Mammary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U14JZ	Supplement Left Internal Mammary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U14KZ	Supplement Left Internal Mammary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U207Z	Supplement Innominate Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U20JZ	Supplement Innominate Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03U20KZ	Supplement Innominate Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U237Z	Supplement Innominate Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U23JZ	Supplement Innominate Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U23KZ	Supplement Innominate Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U247Z	Supplement Innominate Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U24JZ	Supplement Innominate Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U24KZ	Supplement Innominate Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U307Z	Supplement Right Subclavian Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U30JZ	Supplement Right Subclavian Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03U30KZ	Supplement Right Subclavian Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U337Z	Supplement Right Subclavian Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U33JZ	Supplement Right Subclavian Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U33KZ	Supplement Right Subclavian Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03U347Z	Supplement Right Subclavian Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U34JZ	Supplement Right Subclavian Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U34KZ	Supplement Right Subclavian Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U407Z	Supplement Left Subclavian Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U40JZ	Supplement Left Subclavian Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03U40KZ	Supplement Left Subclavian Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U437Z	Supplement Left Subclavian Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U43JZ	Supplement Left Subclavian Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U43KZ	Supplement Left Subclavian Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U447Z	Supplement Left Subclavian Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U44JZ	Supplement Left Subclavian Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U44KZ	Supplement Left Subclavian Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U507Z	Supplement Right Axillary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U50JZ	Supplement Right Axillary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03U50KZ	Supplement Right Axillary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U537Z	Supplement Right Axillary Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U53JZ	Supplement Right Axillary Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U53KZ	Supplement Right Axillary Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U547Z	Supplement Right Axillary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U54JZ	Supplement Right Axillary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U54KZ	Supplement Right Axillary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U607Z	Supplement Left Axillary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U60JZ	Supplement Left Axillary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03U60KZ	Supplement Left Axillary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03U637Z	Supplement Left Axillary Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U63JZ	Supplement Left Axillary Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U63KZ	Supplement Left Axillary Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U647Z	Supplement Left Axillary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U64JZ	Supplement Left Axillary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U64KZ	Supplement Left Axillary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U707Z	Supplement Right Brachial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U70JZ	Supplement Right Brachial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03U70KZ	Supplement Right Brachial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U737Z	Supplement Right Brachial Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U73JZ	Supplement Right Brachial Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U73KZ	Supplement Right Brachial Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U747Z	Supplement Right Brachial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U74JZ	Supplement Right Brachial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U74KZ	Supplement Right Brachial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U807Z	Supplement Left Brachial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U80JZ	Supplement Left Brachial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03U80KZ	Supplement Left Brachial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U837Z	Supplement Left Brachial Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U83JZ	Supplement Left Brachial Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U83KZ	Supplement Left Brachial Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U847Z	Supplement Left Brachial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U84JZ	Supplement Left Brachial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03U84KZ	Supplement Left Brachial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U907Z	Supplement Right Ulnar Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U90JZ	Supplement Right Ulnar Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03U90KZ	Supplement Right Ulnar Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03U937Z	Supplement Right Ulnar Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U93JZ	Supplement Right Ulnar Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U93KZ	Supplement Right Ulnar Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03U947Z	Supplement Right Ulnar Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U94JZ	Supplement Right Ulnar Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03U94KZ	Supplement Right Ulnar Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UA07Z	Supplement Left Ulnar Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UA0JZ	Supplement Left Ulnar Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UA0KZ	Supplement Left Ulnar Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UA37Z	Supplement Left Ulnar Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UA3JZ	Supplement Left Ulnar Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UA3KZ	Supplement Left Ulnar Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UA47Z	Supplement Left Ulnar Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UA4JZ	Supplement Left Ulnar Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UA4KZ	Supplement Left Ulnar Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UB07Z	Supplement Right Radial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UB0JZ	Supplement Right Radial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UB0KZ	Supplement Right Radial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UB37Z	Supplement Right Radial Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UB3JZ	Supplement Right Radial Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03UB3KZ	Supplement Right Radial Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UB47Z	Supplement Right Radial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UB4JZ	Supplement Right Radial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UB4KZ	Supplement Right Radial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UC07Z	Supplement Left Radial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UC0JZ	Supplement Left Radial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UC0KZ	Supplement Left Radial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UC37Z	Supplement Left Radial Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UC3JZ	Supplement Left Radial Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UC3KZ	Supplement Left Radial Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UC47Z	Supplement Left Radial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UC4JZ	Supplement Left Radial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UC4KZ	Supplement Left Radial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UD07Z	Supplement Right Hand Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UD0JZ	Supplement Right Hand Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UD0KZ	Supplement Right Hand Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UD37Z	Supplement Right Hand Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UD3JZ	Supplement Right Hand Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UD3KZ	Supplement Right Hand Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UD47Z	Supplement Right Hand Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UD4JZ	Supplement Right Hand Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UD4KZ	Supplement Right Hand Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UF07Z	Supplement Left Hand Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UF0JZ	Supplement Left Hand Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03UF0KZ	Supplement Left Hand Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UF37Z	Supplement Left Hand Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UF3JZ	Supplement Left Hand Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UF3KZ	Supplement Left Hand Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UF47Z	Supplement Left Hand Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UF4JZ	Supplement Left Hand Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UF4KZ	Supplement Left Hand Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UG07Z	Supplement Intracranial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UG0JZ	Supplement Intracranial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UG0KZ	Supplement Intracranial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UG37Z	Supplement Intracranial Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UG3JZ	Supplement Intracranial Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UG3KZ	Supplement Intracranial Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UG47Z	Supplement Intracranial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UG4JZ	Supplement Intracranial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UG4KZ	Supplement Intracranial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UH07Z	Supplement Right Common Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UH0JZ	Supplement Right Common Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UH0KZ	Supplement Right Common Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UH37Z	Supplement Right Common Carotid Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UH3JZ	Supplement Right Common Carotid Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UH3KZ	Supplement Right Common Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UH47Z	Supplement Right Common Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03UH4JZ	Supplement Right Common Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UH4KZ	Supplement Right Common Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UJ07Z	Supplement Left Common Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UJ0JZ	Supplement Left Common Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UJ0KZ	Supplement Left Common Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UJ37Z	Supplement Left Common Carotid Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UJ3JZ	Supplement Left Common Carotid Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UJ3KZ	Supplement Left Common Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UJ47Z	Supplement Left Common Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UJ4JZ	Supplement Left Common Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UJ4KZ	Supplement Left Common Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UK07Z	Supplement Right Internal Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UK0JZ	Supplement Right Internal Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UK0KZ	Supplement Right Internal Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UK37Z	Supplement Right Internal Carotid Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UK3JZ	Supplement Right Internal Carotid Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UK3KZ	Supplement Right Internal Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UK47Z	Supplement Right Internal Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UK4JZ	Supplement Right Internal Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UK4KZ	Supplement Right Internal Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UL07Z	Supplement Left Internal Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UL0JZ	Supplement Left Internal Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03UL0KZ	Supplement Left Internal Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UL37Z	Supplement Left Internal Carotid Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UL3JZ	Supplement Left Internal Carotid Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UL3KZ	Supplement Left Internal Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UL47Z	Supplement Left Internal Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UL4JZ	Supplement Left Internal Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UL4KZ	Supplement Left Internal Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UM07Z	Supplement Right External Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UM0JZ	Supplement Right External Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UM0KZ	Supplement Right External Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UM37Z	Supplement Right External Carotid Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UM3JZ	Supplement Right External Carotid Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UM3KZ	Supplement Right External Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UM47Z	Supplement Right External Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UM4JZ	Supplement Right External Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UM4KZ	Supplement Right External Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UN07Z	Supplement Left External Carotid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UN0JZ	Supplement Left External Carotid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UN0KZ	Supplement Left External Carotid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UN37Z	Supplement Left External Carotid Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UN3JZ	Supplement Left External Carotid Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UN3KZ	Supplement Left External Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03UN47Z	Supplement Left External Carotid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UN4JZ	Supplement Left External Carotid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UN4KZ	Supplement Left External Carotid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UP07Z	Supplement Right Vertebral Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UP0JZ	Supplement Right Vertebral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UP0KZ	Supplement Right Vertebral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UP37Z	Supplement Right Vertebral Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UP3JZ	Supplement Right Vertebral Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UP3KZ	Supplement Right Vertebral Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UP47Z	Supplement Right Vertebral Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UP4JZ	Supplement Right Vertebral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UP4KZ	Supplement Right Vertebral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UQ07Z	Supplement Left Vertebral Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UQ0JZ	Supplement Left Vertebral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UQ0KZ	Supplement Left Vertebral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UQ37Z	Supplement Left Vertebral Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UQ3JZ	Supplement Left Vertebral Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UQ3KZ	Supplement Left Vertebral Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UQ47Z	Supplement Left Vertebral Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UQ4JZ	Supplement Left Vertebral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UQ4KZ	Supplement Left Vertebral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UR07Z	Supplement Face Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UR0JZ	Supplement Face Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UR0KZ	Supplement Face Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UR37Z	Supplement Face Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
03UR3JZ	Supplement Face Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UR3KZ	Supplement Face Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UR47Z	Supplement Face Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UR4JZ	Supplement Face Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UR4KZ	Supplement Face Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03US07Z	Supplement Right Temporal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03US0JZ	Supplement Right Temporal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03US0KZ	Supplement Right Temporal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03US37Z	Supplement Right Temporal Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03US3JZ	Supplement Right Temporal Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03US3KZ	Supplement Right Temporal Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03US47Z	Supplement Right Temporal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03US4JZ	Supplement Right Temporal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03US4KZ	Supplement Right Temporal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UT07Z	Supplement Left Temporal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UT0JZ	Supplement Left Temporal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UT0KZ	Supplement Left Temporal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UT37Z	Supplement Left Temporal Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UT3JZ	Supplement Left Temporal Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UT3KZ	Supplement Left Temporal Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UT47Z	Supplement Left Temporal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UT4JZ	Supplement Left Temporal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UT4KZ	Supplement Left Temporal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UU07Z	Supplement Right Thyroid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03UU0JZ	Supplement Right Thyroid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UU0KZ	Supplement Right Thyroid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UU37Z	Supplement Right Thyroid Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UU3JZ	Supplement Right Thyroid Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UU3KZ	Supplement Right Thyroid Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UU47Z	Supplement Right Thyroid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UU4JZ	Supplement Right Thyroid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UU4KZ	Supplement Right Thyroid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UV07Z	Supplement Left Thyroid Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UV0JZ	Supplement Left Thyroid Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UV0KZ	Supplement Left Thyroid Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UV37Z	Supplement Left Thyroid Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UV3JZ	Supplement Left Thyroid Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UV3KZ	Supplement Left Thyroid Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UV47Z	Supplement Left Thyroid Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UV4JZ	Supplement Left Thyroid Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UV4KZ	Supplement Left Thyroid Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UY07Z	Supplement Upper Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UY0JZ	Supplement Upper Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
03UY0KZ	Supplement Upper Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
03UY37Z	Supplement Upper Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UY3JZ	Supplement Upper Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UY3KZ	Supplement Upper Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
03UY47Z	Supplement Upper Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03UY4JZ	Supplement Upper Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03UY4KZ	Supplement Upper Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V00CZ	Restriction of Right Internal Mammary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03V00DZ	Restriction of Right Internal Mammary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03V00ZZ	Restriction of Right Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03V03CZ	Restriction of Right Internal Mammary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V03DZ	Restriction of Right Internal Mammary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V03ZZ	Restriction of Right Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03V04CZ	Restriction of Right Internal Mammary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V04DZ	Restriction of Right Internal Mammary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V04ZZ	Restriction of Right Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V10CZ	Restriction of Left Internal Mammary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03V10DZ	Restriction of Left Internal Mammary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03V10ZZ	Restriction of Left Internal Mammary Artery, Open Approach	PX	ICD-10-PCS
03V13CZ	Restriction of Left Internal Mammary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V13DZ	Restriction of Left Internal Mammary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V13ZZ	Restriction of Left Internal Mammary Artery, Percutaneous Approach	PX	ICD-10-PCS
03V14CZ	Restriction of Left Internal Mammary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V14DZ	Restriction of Left Internal Mammary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V14ZZ	Restriction of Left Internal Mammary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V20CZ	Restriction of Innominate Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03V20DZ	Restriction of Innominate Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03V20ZZ	Restriction of Innominate Artery, Open Approach	PX	ICD-10-PCS
03V23CZ	Restriction of Innominate Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V23DZ	Restriction of Innominate Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V23ZZ	Restriction of Innominate Artery, Percutaneous Approach	PX	ICD-10-PCS
03V24CZ	Restriction of Innominate Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03V24DZ	Restriction of Innominate Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V24ZZ	Restriction of Innominate Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V30CZ	Restriction of Right Subclavian Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03V30DZ	Restriction of Right Subclavian Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03V30ZZ	Restriction of Right Subclavian Artery, Open Approach	PX	ICD-10-PCS
03V33CZ	Restriction of Right Subclavian Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V33DZ	Restriction of Right Subclavian Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V33ZZ	Restriction of Right Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03V34CZ	Restriction of Right Subclavian Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V34DZ	Restriction of Right Subclavian Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V34ZZ	Restriction of Right Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V40CZ	Restriction of Left Subclavian Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03V40DZ	Restriction of Left Subclavian Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03V40ZZ	Restriction of Left Subclavian Artery, Open Approach	PX	ICD-10-PCS
03V43CZ	Restriction of Left Subclavian Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V43DZ	Restriction of Left Subclavian Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V43ZZ	Restriction of Left Subclavian Artery, Percutaneous Approach	PX	ICD-10-PCS
03V44CZ	Restriction of Left Subclavian Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V44DZ	Restriction of Left Subclavian Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V44ZZ	Restriction of Left Subclavian Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V50CZ	Restriction of Right Axillary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03V50DZ	Restriction of Right Axillary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03V50ZZ	Restriction of Right Axillary Artery, Open Approach	PX	ICD-10-PCS
03V53CZ	Restriction of Right Axillary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V53DZ	Restriction of Right Axillary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V53ZZ	Restriction of Right Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03V54CZ	Restriction of Right Axillary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V54DZ	Restriction of Right Axillary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V54ZZ	Restriction of Right Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V60CZ	Restriction of Left Axillary Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03V60DZ	Restriction of Left Axillary Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03V60ZZ	Restriction of Left Axillary Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03V63CZ	Restriction of Left Axillary Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V63DZ	Restriction of Left Axillary Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V63ZZ	Restriction of Left Axillary Artery, Percutaneous Approach	PX	ICD-10-PCS
03V64CZ	Restriction of Left Axillary Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V64DZ	Restriction of Left Axillary Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V64ZZ	Restriction of Left Axillary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V70CZ	Restriction of Right Brachial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03V70DZ	Restriction of Right Brachial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03V70ZZ	Restriction of Right Brachial Artery, Open Approach	PX	ICD-10-PCS
03V73CZ	Restriction of Right Brachial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V73DZ	Restriction of Right Brachial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V73ZZ	Restriction of Right Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03V74CZ	Restriction of Right Brachial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V74DZ	Restriction of Right Brachial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V74ZZ	Restriction of Right Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V80CZ	Restriction of Left Brachial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03V80DZ	Restriction of Left Brachial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03V80ZZ	Restriction of Left Brachial Artery, Open Approach	PX	ICD-10-PCS
03V83CZ	Restriction of Left Brachial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V83DZ	Restriction of Left Brachial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V83ZZ	Restriction of Left Brachial Artery, Percutaneous Approach	PX	ICD-10-PCS
03V84CZ	Restriction of Left Brachial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V84DZ	Restriction of Left Brachial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V84ZZ	Restriction of Left Brachial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V90CZ	Restriction of Right Ulnar Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03V90DZ	Restriction of Right Ulnar Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03V90ZZ	Restriction of Right Ulnar Artery, Open Approach	PX	ICD-10-PCS
03V93CZ	Restriction of Right Ulnar Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V93DZ	Restriction of Right Ulnar Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03V93ZZ	Restriction of Right Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03V94CZ	Restriction of Right Ulnar Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V94DZ	Restriction of Right Ulnar Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03V94ZZ	Restriction of Right Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VA0CZ	Restriction of Left Ulnar Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VA0DZ	Restriction of Left Ulnar Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VA0ZZ	Restriction of Left Ulnar Artery, Open Approach	PX	ICD-10-PCS
03VA3CZ	Restriction of Left Ulnar Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VA3DZ	Restriction of Left Ulnar Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VA3ZZ	Restriction of Left Ulnar Artery, Percutaneous Approach	PX	ICD-10-PCS
03VA4CZ	Restriction of Left Ulnar Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VA4DZ	Restriction of Left Ulnar Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VA4ZZ	Restriction of Left Ulnar Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VB0CZ	Restriction of Right Radial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VB0DZ	Restriction of Right Radial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VB0ZZ	Restriction of Right Radial Artery, Open Approach	PX	ICD-10-PCS
03VB3CZ	Restriction of Right Radial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VB3DZ	Restriction of Right Radial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VB3ZZ	Restriction of Right Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03VB4CZ	Restriction of Right Radial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VB4DZ	Restriction of Right Radial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VB4ZZ	Restriction of Right Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VC0CZ	Restriction of Left Radial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VC0DZ	Restriction of Left Radial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VC0ZZ	Restriction of Left Radial Artery, Open Approach	PX	ICD-10-PCS
03VC3CZ	Restriction of Left Radial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VC3DZ	Restriction of Left Radial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VC3ZZ	Restriction of Left Radial Artery, Percutaneous Approach	PX	ICD-10-PCS
03VC4CZ	Restriction of Left Radial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VC4DZ	Restriction of Left Radial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VC4ZZ	Restriction of Left Radial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VD0CZ	Restriction of Right Hand Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03VD0DZ	Restriction of Right Hand Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VD0ZZ	Restriction of Right Hand Artery, Open Approach	PX	ICD-10-PCS
03VD3CZ	Restriction of Right Hand Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VD3DZ	Restriction of Right Hand Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VD3ZZ	Restriction of Right Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03VD4CZ	Restriction of Right Hand Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VD4DZ	Restriction of Right Hand Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VD4ZZ	Restriction of Right Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VF0CZ	Restriction of Left Hand Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VF0DZ	Restriction of Left Hand Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VF0ZZ	Restriction of Left Hand Artery, Open Approach	PX	ICD-10-PCS
03VF3CZ	Restriction of Left Hand Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VF3DZ	Restriction of Left Hand Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VF3ZZ	Restriction of Left Hand Artery, Percutaneous Approach	PX	ICD-10-PCS
03VF4CZ	Restriction of Left Hand Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VF4DZ	Restriction of Left Hand Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VF4ZZ	Restriction of Left Hand Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VG0BZ	Restriction of Intracranial Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VG0CZ	Restriction of Intracranial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VG0DZ	Restriction of Intracranial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VG0HZ	Restriction of Intracranial Artery with Intraluminal Device, Flow Diverter, Open Approach	PX	ICD-10-PCS
03VG0ZZ	Restriction of Intracranial Artery, Open Approach	PX	ICD-10-PCS
03VG3BZ	Restriction of Intracranial Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VG3CZ	Restriction of Intracranial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VG3DZ	Restriction of Intracranial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VG3HZ	Restriction of Intracranial Artery with Intraluminal Device, Flow Diverter, Percutaneous Approach	PX	ICD-10-PCS
03VG3ZZ	Restriction of Intracranial Artery, Percutaneous Approach	PX	ICD-10-PCS
03VG4BZ	Restriction of Intracranial Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VG4CZ	Restriction of Intracranial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03VG4DZ	Restriction of Intracranial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VG4HZ	Restriction of Intracranial Artery with Intraluminal Device, Flow Diverter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VG4ZZ	Restriction of Intracranial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VH0BZ	Restriction of Right Common Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VH0CZ	Restriction of Right Common Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VH0DZ	Restriction of Right Common Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VH0HZ	Restriction of Right Common Carotid Artery with Intraluminal Device, Flow Diverter, Open Approach	PX	ICD-10-PCS
03VH0ZZ	Restriction of Right Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03VH3BZ	Restriction of Right Common Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VH3CZ	Restriction of Right Common Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VH3DZ	Restriction of Right Common Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VH3HZ	Restriction of Right Common Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Approach	PX	ICD-10-PCS
03VH3ZZ	Restriction of Right Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03VH4BZ	Restriction of Right Common Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VH4CZ	Restriction of Right Common Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VH4DZ	Restriction of Right Common Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VH4HZ	Restriction of Right Common Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VH4ZZ	Restriction of Right Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VJ0BZ	Restriction of Left Common Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VJ0CZ	Restriction of Left Common Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VJ0DZ	Restriction of Left Common Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VJ0HZ	Restriction of Left Common Carotid Artery with Intraluminal Device, Flow Diverter, Open Approach	PX	ICD-10-PCS
03VJ0ZZ	Restriction of Left Common Carotid Artery, Open Approach	PX	ICD-10-PCS
03VJ3BZ	Restriction of Left Common Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03VJ3CZ	Restriction of Left Common Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VJ3DZ	Restriction of Left Common Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VJ3HZ	Restriction of Left Common Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Approach	PX	ICD-10-PCS
03VJ3ZZ	Restriction of Left Common Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03VJ4BZ	Restriction of Left Common Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VJ4CZ	Restriction of Left Common Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VJ4DZ	Restriction of Left Common Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VJ4HZ	Restriction of Left Common Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VJ4ZZ	Restriction of Left Common Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VK0BZ	Restriction of Right Internal Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VK0CZ	Restriction of Right Internal Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VK0DZ	Restriction of Right Internal Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VK0HZ	Restriction of Right Internal Carotid Artery with Intraluminal Device, Flow Diverter, Open Approach	PX	ICD-10-PCS
03VK0ZZ	Restriction of Right Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03VK3BZ	Restriction of Right Internal Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VK3CZ	Restriction of Right Internal Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VK3DZ	Restriction of Right Internal Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VK3HZ	Restriction of Right Internal Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Approach	PX	ICD-10-PCS
03VK3ZZ	Restriction of Right Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03VK4BZ	Restriction of Right Internal Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VK4CZ	Restriction of Right Internal Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VK4DZ	Restriction of Right Internal Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VK4HZ	Restriction of Right Internal Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VK4ZZ	Restriction of Right Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VL0BZ	Restriction of Left Internal Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03VL0CZ	Restriction of Left Internal Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VL0DZ	Restriction of Left Internal Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VL0HZ	Restriction of Left Internal Carotid Artery with Intraluminal Device, Flow Diverter, Open Approach	PX	ICD-10-PCS
03VL0ZZ	Restriction of Left Internal Carotid Artery, Open Approach	PX	ICD-10-PCS
03VL3BZ	Restriction of Left Internal Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VL3CZ	Restriction of Left Internal Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VL3DZ	Restriction of Left Internal Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VL3HZ	Restriction of Left Internal Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Approach	PX	ICD-10-PCS
03VL3ZZ	Restriction of Left Internal Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03VL4BZ	Restriction of Left Internal Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VL4CZ	Restriction of Left Internal Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VL4DZ	Restriction of Left Internal Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VL4HZ	Restriction of Left Internal Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VL4ZZ	Restriction of Left Internal Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VM0BZ	Restriction of Right External Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VM0CZ	Restriction of Right External Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VM0DZ	Restriction of Right External Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VM0HZ	Restriction of Right External Carotid Artery with Intraluminal Device, Flow Diverter, Open Approach	PX	ICD-10-PCS
03VM0ZZ	Restriction of Right External Carotid Artery, Open Approach	PX	ICD-10-PCS
03VM3BZ	Restriction of Right External Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VM3CZ	Restriction of Right External Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VM3DZ	Restriction of Right External Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VM3HZ	Restriction of Right External Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Approach	PX	ICD-10-PCS
03VM3ZZ	Restriction of Right External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03VM4BZ	Restriction of Right External Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03VM4CZ	Restriction of Right External Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VM4DZ	Restriction of Right External Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VM4HZ	Restriction of Right External Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VM4ZZ	Restriction of Right External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VN0BZ	Restriction of Left External Carotid Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VN0CZ	Restriction of Left External Carotid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VN0DZ	Restriction of Left External Carotid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VN0HZ	Restriction of Left External Carotid Artery with Intraluminal Device, Flow Diverter, Open Approach	PX	ICD-10-PCS
03VN0ZZ	Restriction of Left External Carotid Artery, Open Approach	PX	ICD-10-PCS
03VN3BZ	Restriction of Left External Carotid Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VN3CZ	Restriction of Left External Carotid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VN3DZ	Restriction of Left External Carotid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VN3HZ	Restriction of Left External Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Approach	PX	ICD-10-PCS
03VN3ZZ	Restriction of Left External Carotid Artery, Percutaneous Approach	PX	ICD-10-PCS
03VN4BZ	Restriction of Left External Carotid Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VN4CZ	Restriction of Left External Carotid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VN4DZ	Restriction of Left External Carotid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VN4HZ	Restriction of Left External Carotid Artery with Intraluminal Device, Flow Diverter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VN4ZZ	Restriction of Left External Carotid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VP0BZ	Restriction of Right Vertebral Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VP0CZ	Restriction of Right Vertebral Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VP0DZ	Restriction of Right Vertebral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VP0HZ	Restriction of Right Vertebral Artery with Intraluminal Device, Flow Diverter, Open Approach	PX	ICD-10-PCS
03VP0ZZ	Restriction of Right Vertebral Artery, Open Approach	PX	ICD-10-PCS
03VP3BZ	Restriction of Right Vertebral Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VP3CZ	Restriction of Right Vertebral Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03VP3DZ	Restriction of Right Vertebral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VP3HZ	Restriction of Right Vertebral Artery with Intraluminal Device, Flow Diverter, Percutaneous Approach	PX	ICD-10-PCS
03VP3ZZ	Restriction of Right Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03VP4BZ	Restriction of Right Vertebral Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VP4CZ	Restriction of Right Vertebral Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VP4DZ	Restriction of Right Vertebral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VP4HZ	Restriction of Right Vertebral Artery with Intraluminal Device, Flow Diverter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VP4ZZ	Restriction of Right Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VQ0BZ	Restriction of Left Vertebral Artery with Bioactive Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VQ0CZ	Restriction of Left Vertebral Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VQ0DZ	Restriction of Left Vertebral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VQ0HZ	Restriction of Left Vertebral Artery with Intraluminal Device, Flow Diverter, Open Approach	PX	ICD-10-PCS
03VQ0ZZ	Restriction of Left Vertebral Artery, Open Approach	PX	ICD-10-PCS
03VQ3BZ	Restriction of Left Vertebral Artery with Bioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VQ3CZ	Restriction of Left Vertebral Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VQ3DZ	Restriction of Left Vertebral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VQ3HZ	Restriction of Left Vertebral Artery with Intraluminal Device, Flow Diverter, Percutaneous Approach	PX	ICD-10-PCS
03VQ3ZZ	Restriction of Left Vertebral Artery, Percutaneous Approach	PX	ICD-10-PCS
03VQ4BZ	Restriction of Left Vertebral Artery with Bioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VQ4CZ	Restriction of Left Vertebral Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VQ4DZ	Restriction of Left Vertebral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VQ4HZ	Restriction of Left Vertebral Artery with Intraluminal Device, Flow Diverter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VQ4ZZ	Restriction of Left Vertebral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VR0CZ	Restriction of Face Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VR0DZ	Restriction of Face Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VR0ZZ	Restriction of Face Artery, Open Approach	PX	ICD-10-PCS
03VR3CZ	Restriction of Face Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VR3DZ	Restriction of Face Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VR3ZZ	Restriction of Face Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03VR4CZ	Restriction of Face Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VR4DZ	Restriction of Face Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VR4ZZ	Restriction of Face Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VS0CZ	Restriction of Right Temporal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VS0DZ	Restriction of Right Temporal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VS0ZZ	Restriction of Right Temporal Artery, Open Approach	PX	ICD-10-PCS
03VS3CZ	Restriction of Right Temporal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VS3DZ	Restriction of Right Temporal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VS3ZZ	Restriction of Right Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03VS4CZ	Restriction of Right Temporal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VS4DZ	Restriction of Right Temporal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VS4ZZ	Restriction of Right Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VT0CZ	Restriction of Left Temporal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VT0DZ	Restriction of Left Temporal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VT0ZZ	Restriction of Left Temporal Artery, Open Approach	PX	ICD-10-PCS
03VT3CZ	Restriction of Left Temporal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VT3DZ	Restriction of Left Temporal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VT3ZZ	Restriction of Left Temporal Artery, Percutaneous Approach	PX	ICD-10-PCS
03VT4CZ	Restriction of Left Temporal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VT4DZ	Restriction of Left Temporal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VT4ZZ	Restriction of Left Temporal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VU0CZ	Restriction of Right Thyroid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VU0DZ	Restriction of Right Thyroid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VU0ZZ	Restriction of Right Thyroid Artery, Open Approach	PX	ICD-10-PCS
03VU3CZ	Restriction of Right Thyroid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VU3DZ	Restriction of Right Thyroid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VU3ZZ	Restriction of Right Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03VU4CZ	Restriction of Right Thyroid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VU4DZ	Restriction of Right Thyroid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VU4ZZ	Restriction of Right Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VV0CZ	Restriction of Left Thyroid Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03VV0DZ	Restriction of Left Thyroid Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VV0ZZ	Restriction of Left Thyroid Artery, Open Approach	PX	ICD-10-PCS
03VV3CZ	Restriction of Left Thyroid Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VV3DZ	Restriction of Left Thyroid Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VV3ZZ	Restriction of Left Thyroid Artery, Percutaneous Approach	PX	ICD-10-PCS
03VV4CZ	Restriction of Left Thyroid Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VV4DZ	Restriction of Left Thyroid Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VV4ZZ	Restriction of Left Thyroid Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VY0CZ	Restriction of Upper Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
03VY0DZ	Restriction of Upper Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
03VY0ZZ	Restriction of Upper Artery, Open Approach	PX	ICD-10-PCS
03VY3CZ	Restriction of Upper Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VY3DZ	Restriction of Upper Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
03VY3ZZ	Restriction of Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03VY4CZ	Restriction of Upper Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VY4DZ	Restriction of Upper Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03VY4ZZ	Restriction of Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03WY00Z	Revision of Drainage Device in Upper Artery, Open Approach	PX	ICD-10-PCS
03WY02Z	Revision of Monitoring Device in Upper Artery, Open Approach	PX	ICD-10-PCS
03WY03Z	Revision of Infusion Device in Upper Artery, Open Approach	PX	ICD-10-PCS
03WY07Z	Revision of Autologous Tissue Substitute in Upper Artery, Open Approach	PX	ICD-10-PCS
03WY0CZ	Revision of Extraluminal Device in Upper Artery, Open Approach	PX	ICD-10-PCS
03WY0DZ	Revision of Intraluminal Device in Upper Artery, Open Approach	PX	ICD-10-PCS
03WY0JZ	Revision of Synthetic Substitute in Upper Artery, Open Approach	PX	ICD-10-PCS
03WY0KZ	Revision of Nonautologous Tissue Substitute in Upper Artery, Open Approach	PX	ICD-10-PCS
03WY0MZ	Revision of Stimulator Lead in Upper Artery, Open Approach	PX	ICD-10-PCS
03WY0YZ	Revision of Other Device in Upper Artery, Open Approach	PX	ICD-10-PCS
03WY37Z	Revision of Autologous Tissue Substitute in Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03WY3CZ	Revision of Extraluminal Device in Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03WY3DZ	Revision of Intraluminal Device in Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03WY3JZ	Revision of Synthetic Substitute in Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03WY3KZ	Revision of Nonautologous Tissue Substitute in Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03WY3MZ	Revision of Stimulator Lead in Upper Artery, Percutaneous Approach	PX	ICD-10-PCS
03WY40Z	Revision of Drainage Device in Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03WY42Z	Revision of Monitoring Device in Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
03WY43Z	Revision of Infusion Device in Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03WY47Z	Revision of Autologous Tissue Substitute in Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03WY4CZ	Revision of Extraluminal Device in Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03WY4DZ	Revision of Intraluminal Device in Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03WY4JZ	Revision of Synthetic Substitute in Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03WY4KZ	Revision of Nonautologous Tissue Substitute in Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03WY4MZ	Revision of Stimulator Lead in Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
03WY4YZ	Revision of Other Device in Upper Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0410090	Bypass Abdominal Aorta to Abdominal Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0410091	Bypass Abdominal Aorta to Celiac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0410092	Bypass Abdominal Aorta to Mesenteric Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0410093	Bypass Abdominal Aorta to Right Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0410094	Bypass Abdominal Aorta to Left Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0410095	Bypass Abdominal Aorta to Bilateral Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0410096	Bypass Abdominal Aorta to Right Common Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0410097	Bypass Abdominal Aorta to Left Common Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0410098	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0410099	Bypass Abdominal Aorta to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041009B	Bypass Abdominal Aorta to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041009C	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041009D	Bypass Abdominal Aorta to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041009F	Bypass Abdominal Aorta to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041009G	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041009H	Bypass Abdominal Aorta to Right Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041009J	Bypass Abdominal Aorta to Left Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041009K	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041009Q	Bypass Abdominal Aorta to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041009R	Bypass Abdominal Aorta to Lower Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
04100A0	Bypass Abdominal Aorta to Abdominal Aorta with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100A1	Bypass Abdominal Aorta to Celiac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100A2	Bypass Abdominal Aorta to Mesenteric Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100A3	Bypass Abdominal Aorta to Right Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100A4	Bypass Abdominal Aorta to Left Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100A5	Bypass Abdominal Aorta to Bilateral Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100A6	Bypass Abdominal Aorta to Right Common Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100A7	Bypass Abdominal Aorta to Left Common Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100A8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100A9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100AB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100AC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100AD	Bypass Abdominal Aorta to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100AF	Bypass Abdominal Aorta to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100AG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100AH	Bypass Abdominal Aorta to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100AJ	Bypass Abdominal Aorta to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04100AK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100AQ	Bypass Abdominal Aorta to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100AR	Bypass Abdominal Aorta to Lower Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04100J0	Bypass Abdominal Aorta to Abdominal Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100J1	Bypass Abdominal Aorta to Celiac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100J2	Bypass Abdominal Aorta to Mesenteric Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100J3	Bypass Abdominal Aorta to Right Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100J4	Bypass Abdominal Aorta to Left Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100J5	Bypass Abdominal Aorta to Bilateral Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100J6	Bypass Abdominal Aorta to Right Common Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100J7	Bypass Abdominal Aorta to Left Common Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100J8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100J9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100JB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100JC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100JD	Bypass Abdominal Aorta to Right External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100JF	Bypass Abdominal Aorta to Left External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100JG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100JH	Bypass Abdominal Aorta to Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100JJ	Bypass Abdominal Aorta to Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100JK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100JQ	Bypass Abdominal Aorta to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04100JR	Bypass Abdominal Aorta to Lower Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04100K0	Bypass Abdominal Aorta to Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100K1	Bypass Abdominal Aorta to Celiac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100K2	Bypass Abdominal Aorta to Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100K3	Bypass Abdominal Aorta to Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100K4	Bypass Abdominal Aorta to Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100K5	Bypass Abdominal Aorta to Bilateral Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100K6	Bypass Abdominal Aorta to Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100K7	Bypass Abdominal Aorta to Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100K8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100K9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100KB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100KC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100KD	Bypass Abdominal Aorta to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100KF	Bypass Abdominal Aorta to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100KG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100KH	Bypass Abdominal Aorta to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100KJ	Bypass Abdominal Aorta to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100KK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100KQ	Bypass Abdominal Aorta to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100KR	Bypass Abdominal Aorta to Lower Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04100Z0	Bypass Abdominal Aorta to Abdominal Aorta, Open Approach	PX	ICD-10-PCS
04100Z1	Bypass Abdominal Aorta to Celiac Artery, Open Approach	PX	ICD-10-PCS
04100Z2	Bypass Abdominal Aorta to Mesenteric Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04100Z3	Bypass Abdominal Aorta to Right Renal Artery, Open Approach	PX	ICD-10-PCS
04100Z4	Bypass Abdominal Aorta to Left Renal Artery, Open Approach	PX	ICD-10-PCS
04100Z5	Bypass Abdominal Aorta to Bilateral Renal Artery, Open Approach	PX	ICD-10-PCS
04100Z6	Bypass Abdominal Aorta to Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04100Z7	Bypass Abdominal Aorta to Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04100Z8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries, Open Approach	PX	ICD-10-PCS
04100Z9	Bypass Abdominal Aorta to Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04100ZB	Bypass Abdominal Aorta to Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04100ZC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries, Open Approach	PX	ICD-10-PCS
04100ZD	Bypass Abdominal Aorta to Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
04100ZF	Bypass Abdominal Aorta to Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
04100ZG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries, Open Approach	PX	ICD-10-PCS
04100ZH	Bypass Abdominal Aorta to Right Femoral Artery, Open Approach	PX	ICD-10-PCS
04100ZJ	Bypass Abdominal Aorta to Left Femoral Artery, Open Approach	PX	ICD-10-PCS
04100ZK	Bypass Abdominal Aorta to Bilateral Femoral Arteries, Open Approach	PX	ICD-10-PCS
04100ZQ	Bypass Abdominal Aorta to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
04100ZR	Bypass Abdominal Aorta to Lower Artery, Open Approach	PX	ICD-10-PCS
0410490	Bypass Abdominal Aorta to Abdominal Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0410491	Bypass Abdominal Aorta to Celiac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0410492	Bypass Abdominal Aorta to Mesenteric Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0410493	Bypass Abdominal Aorta to Right Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0410494	Bypass Abdominal Aorta to Left Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0410495	Bypass Abdominal Aorta to Bilateral Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0410496	Bypass Abdominal Aorta to Right Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0410497	Bypass Abdominal Aorta to Left Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0410498	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0410499	Bypass Abdominal Aorta to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041049B	Bypass Abdominal Aorta to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041049C	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041049D	Bypass Abdominal Aorta to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041049F	Bypass Abdominal Aorta to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041049G	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041049H	Bypass Abdominal Aorta to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041049J	Bypass Abdominal Aorta to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041049K	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041049Q	Bypass Abdominal Aorta to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041049R	Bypass Abdominal Aorta to Lower Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104A0	Bypass Abdominal Aorta to Abdominal Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104A1	Bypass Abdominal Aorta to Celiac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104A2	Bypass Abdominal Aorta to Mesenteric Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104A3	Bypass Abdominal Aorta to Right Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104A4	Bypass Abdominal Aorta to Left Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104A5	Bypass Abdominal Aorta to Bilateral Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104A6	Bypass Abdominal Aorta to Right Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104A7	Bypass Abdominal Aorta to Left Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104A8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104A9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104AB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104AC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104AD	Bypass Abdominal Aorta to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104AF	Bypass Abdominal Aorta to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104AG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104AH	Bypass Abdominal Aorta to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04104AJ	Bypass Abdominal Aorta to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104AK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104AQ	Bypass Abdominal Aorta to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104AR	Bypass Abdominal Aorta to Lower Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104J0	Bypass Abdominal Aorta to Abdominal Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104J1	Bypass Abdominal Aorta to Celiac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104J2	Bypass Abdominal Aorta to Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104J3	Bypass Abdominal Aorta to Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104J4	Bypass Abdominal Aorta to Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104J5	Bypass Abdominal Aorta to Bilateral Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104J6	Bypass Abdominal Aorta to Right Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104J7	Bypass Abdominal Aorta to Left Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104J8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104J9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104JB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104JC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104JD	Bypass Abdominal Aorta to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104JF	Bypass Abdominal Aorta to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104JG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104JH	Bypass Abdominal Aorta to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104JJ	Bypass Abdominal Aorta to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104JK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04104JQ	Bypass Abdominal Aorta to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104JR	Bypass Abdominal Aorta to Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104K0	Bypass Abdominal Aorta to Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104K1	Bypass Abdominal Aorta to Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104K2	Bypass Abdominal Aorta to Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104K3	Bypass Abdominal Aorta to Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104K4	Bypass Abdominal Aorta to Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104K5	Bypass Abdominal Aorta to Bilateral Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104K6	Bypass Abdominal Aorta to Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104K7	Bypass Abdominal Aorta to Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104K8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104K9	Bypass Abdominal Aorta to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104KB	Bypass Abdominal Aorta to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104KC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104KD	Bypass Abdominal Aorta to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104KF	Bypass Abdominal Aorta to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104KG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104KH	Bypass Abdominal Aorta to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104KJ	Bypass Abdominal Aorta to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104KK	Bypass Abdominal Aorta to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104KQ	Bypass Abdominal Aorta to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104KR	Bypass Abdominal Aorta to Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04104Z0	Bypass Abdominal Aorta to Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104Z1	Bypass Abdominal Aorta to Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104Z2	Bypass Abdominal Aorta to Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104Z3	Bypass Abdominal Aorta to Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104Z4	Bypass Abdominal Aorta to Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104Z5	Bypass Abdominal Aorta to Bilateral Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104Z6	Bypass Abdominal Aorta to Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104Z7	Bypass Abdominal Aorta to Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104Z8	Bypass Abdominal Aorta to Bilateral Common Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104Z9	Bypass Abdominal Aorta to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104ZB	Bypass Abdominal Aorta to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104ZC	Bypass Abdominal Aorta to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104ZD	Bypass Abdominal Aorta to Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104ZF	Bypass Abdominal Aorta to Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104ZG	Bypass Abdominal Aorta to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104ZH	Bypass Abdominal Aorta to Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104ZJ	Bypass Abdominal Aorta to Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104ZK	Bypass Abdominal Aorta to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104ZQ	Bypass Abdominal Aorta to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04104ZR	Bypass Abdominal Aorta to Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0413093	Bypass Hepatic Artery to Right Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0413094	Bypass Hepatic Artery to Left Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0413095	Bypass Hepatic Artery to Bilateral Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041309R	Bypass Hepatic Artery to Lower Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
04130A3	Bypass Hepatic Artery to Right Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04130A4	Bypass Hepatic Artery to Left Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04130A5	Bypass Hepatic Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04130AR	Bypass Hepatic Artery to Lower Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04130J3	Bypass Hepatic Artery to Right Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04130J4	Bypass Hepatic Artery to Left Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04130J5	Bypass Hepatic Artery to Bilateral Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04130JR	Bypass Hepatic Artery to Lower Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04130K3	Bypass Hepatic Artery to Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04130K4	Bypass Hepatic Artery to Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04130K5	Bypass Hepatic Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04130KR	Bypass Hepatic Artery to Lower Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04130Z3	Bypass Hepatic Artery to Right Renal Artery, Open Approach	PX	ICD-10-PCS
04130Z4	Bypass Hepatic Artery to Left Renal Artery, Open Approach	PX	ICD-10-PCS
04130Z5	Bypass Hepatic Artery to Bilateral Renal Artery, Open Approach	PX	ICD-10-PCS
04130ZR	Bypass Hepatic Artery to Lower Artery, Open Approach	PX	ICD-10-PCS
0413493	Bypass Hepatic Artery to Right Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0413494	Bypass Hepatic Artery to Left Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0413495	Bypass Hepatic Artery to Bilateral Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041349R	Bypass Hepatic Artery to Lower Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134A3	Bypass Hepatic Artery to Right Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134A4	Bypass Hepatic Artery to Left Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134A5	Bypass Hepatic Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04134AR	Bypass Hepatic Artery to Lower Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134J3	Bypass Hepatic Artery to Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134J4	Bypass Hepatic Artery to Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134J5	Bypass Hepatic Artery to Bilateral Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134JR	Bypass Hepatic Artery to Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134K3	Bypass Hepatic Artery to Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134K4	Bypass Hepatic Artery to Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134K5	Bypass Hepatic Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134KR	Bypass Hepatic Artery to Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134Z3	Bypass Hepatic Artery to Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134Z4	Bypass Hepatic Artery to Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134Z5	Bypass Hepatic Artery to Bilateral Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04134ZR	Bypass Hepatic Artery to Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0414093	Bypass Splenic Artery to Right Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0414094	Bypass Splenic Artery to Left Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0414095	Bypass Splenic Artery to Bilateral Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041409R	Bypass Splenic Artery to Lower Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
04140A3	Bypass Splenic Artery to Right Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04140A4	Bypass Splenic Artery to Left Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04140A5	Bypass Splenic Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04140AR	Bypass Splenic Artery to Lower Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
04140J3	Bypass Splenic Artery to Right Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04140J4	Bypass Splenic Artery to Left Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04140J5	Bypass Splenic Artery to Bilateral Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
04140JR	Bypass Splenic Artery to Lower Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04140K3	Bypass Splenic Artery to Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04140K4	Bypass Splenic Artery to Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04140K5	Bypass Splenic Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04140KR	Bypass Splenic Artery to Lower Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04140Z3	Bypass Splenic Artery to Right Renal Artery, Open Approach	PX	ICD-10-PCS
04140Z4	Bypass Splenic Artery to Left Renal Artery, Open Approach	PX	ICD-10-PCS
04140Z5	Bypass Splenic Artery to Bilateral Renal Artery, Open Approach	PX	ICD-10-PCS
04140ZR	Bypass Splenic Artery to Lower Artery, Open Approach	PX	ICD-10-PCS
0414493	Bypass Splenic Artery to Right Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0414494	Bypass Splenic Artery to Left Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0414495	Bypass Splenic Artery to Bilateral Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041449R	Bypass Splenic Artery to Lower Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144A3	Bypass Splenic Artery to Right Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144A4	Bypass Splenic Artery to Left Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144A5	Bypass Splenic Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144AR	Bypass Splenic Artery to Lower Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144J3	Bypass Splenic Artery to Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144J4	Bypass Splenic Artery to Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144J5	Bypass Splenic Artery to Bilateral Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144JR	Bypass Splenic Artery to Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144K3	Bypass Splenic Artery to Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144K4	Bypass Splenic Artery to Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144K5	Bypass Splenic Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144KR	Bypass Splenic Artery to Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04144Z3	Bypass Splenic Artery to Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144Z4	Bypass Splenic Artery to Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144Z5	Bypass Splenic Artery to Bilateral Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04144ZR	Bypass Splenic Artery to Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C090	Bypass Right Common Iliac Artery to Abdominal Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C091	Bypass Right Common Iliac Artery to Celiac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C092	Bypass Right Common Iliac Artery to Mesenteric Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C093	Bypass Right Common Iliac Artery to Right Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C094	Bypass Right Common Iliac Artery to Left Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C095	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C096	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C097	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C098	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C099	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C09B	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C09C	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C09D	Bypass Right Common Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C09F	Bypass Right Common Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C09G	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C09H	Bypass Right Common Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C09J	Bypass Right Common Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C09K	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C09Q	Bypass Right Common Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041C09R	Bypass Right Common Iliac Artery to Lower Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041C0A0	Bypass Right Common Iliac Artery to Abdominal Aorta with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0A1	Bypass Right Common Iliac Artery to Celiac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0A2	Bypass Right Common Iliac Artery to Mesenteric Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0A3	Bypass Right Common Iliac Artery to Right Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0A4	Bypass Right Common Iliac Artery to Left Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0A5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0A6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0A7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0A8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0A9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0AB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0AC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0AD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0AF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0AG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0AH	Bypass Right Common Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0AJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0AK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0AQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0AR	Bypass Right Common Iliac Artery to Lower Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041C0J0	Bypass Right Common Iliac Artery to Abdominal Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0J1	Bypass Right Common Iliac Artery to Celiac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
041C0J2	Bypass Right Common Iliac Artery to Mesenteric Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0J3	Bypass Right Common Iliac Artery to Right Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0J4	Bypass Right Common Iliac Artery to Left Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0J5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0J6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0J7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0J8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0J9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0JB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0JC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0JD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0JF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0JG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0JH	Bypass Right Common Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0JJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0JK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0JQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0JR	Bypass Right Common Iliac Artery to Lower Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041C0K0	Bypass Right Common Iliac Artery to Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0K1	Bypass Right Common Iliac Artery to Celiac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0K2	Bypass Right Common Iliac Artery to Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0K3	Bypass Right Common Iliac Artery to Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
041C0K4	Bypass Right Common Iliac Artery to Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0K5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0K6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0K7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0K8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0K9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0KB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0KC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0KD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0KF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0KG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0KH	Bypass Right Common Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0KJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0KK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0KQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0KR	Bypass Right Common Iliac Artery to Lower Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041C0Z0	Bypass Right Common Iliac Artery to Abdominal Aorta, Open Approach	PX	ICD-10-PCS
041C0Z1	Bypass Right Common Iliac Artery to Celiac Artery, Open Approach	PX	ICD-10-PCS
041C0Z2	Bypass Right Common Iliac Artery to Mesenteric Artery, Open Approach	PX	ICD-10-PCS
041C0Z3	Bypass Right Common Iliac Artery to Right Renal Artery, Open Approach	PX	ICD-10-PCS
041C0Z4	Bypass Right Common Iliac Artery to Left Renal Artery, Open Approach	PX	ICD-10-PCS
041C0Z5	Bypass Right Common Iliac Artery to Bilateral Renal Artery, Open Approach	PX	ICD-10-PCS
041C0Z6	Bypass Right Common Iliac Artery to Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
041C0Z7	Bypass Right Common Iliac Artery to Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
041C0Z8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries, Open Approach	PX	ICD-10-PCS
041C0Z9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
041C0ZB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
041C0ZC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	PX	ICD-10-PCS
041C0ZD	Bypass Right Common Iliac Artery to Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
041C0ZF	Bypass Right Common Iliac Artery to Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
041C0ZG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries, Open Approach	PX	ICD-10-PCS
041C0ZH	Bypass Right Common Iliac Artery to Right Femoral Artery, Open Approach	PX	ICD-10-PCS
041C0ZJ	Bypass Right Common Iliac Artery to Left Femoral Artery, Open Approach	PX	ICD-10-PCS
041C0ZK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries, Open Approach	PX	ICD-10-PCS
041C0ZQ	Bypass Right Common Iliac Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041C0ZR	Bypass Right Common Iliac Artery to Lower Artery, Open Approach	PX	ICD-10-PCS
041C490	Bypass Right Common Iliac Artery to Abdominal Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C491	Bypass Right Common Iliac Artery to Celiac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C492	Bypass Right Common Iliac Artery to Mesenteric Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C493	Bypass Right Common Iliac Artery to Right Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C494	Bypass Right Common Iliac Artery to Left Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C495	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C496	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C497	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C498	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C499	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C49B	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C49C	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C49D	Bypass Right Common Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C49F	Bypass Right Common Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C49G	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C49H	Bypass Right Common Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C49J	Bypass Right Common Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041C49K	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C49Q	Bypass Right Common Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C49R	Bypass Right Common Iliac Artery to Lower Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4A0	Bypass Right Common Iliac Artery to Abdominal Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4A1	Bypass Right Common Iliac Artery to Celiac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4A2	Bypass Right Common Iliac Artery to Mesenteric Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4A3	Bypass Right Common Iliac Artery to Right Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4A4	Bypass Right Common Iliac Artery to Left Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4A5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4A6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4A7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4A8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4A9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4AB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4AC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4AD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4AF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4AG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4AH	Bypass Right Common Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4AJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4AK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4AQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041C4AR	Bypass Right Common Iliac Artery to Lower Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4J0	Bypass Right Common Iliac Artery to Abdominal Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4J1	Bypass Right Common Iliac Artery to Celiac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4J2	Bypass Right Common Iliac Artery to Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4J3	Bypass Right Common Iliac Artery to Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4J4	Bypass Right Common Iliac Artery to Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4J5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4J6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4J7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4J8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4J9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4JB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4JC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4JD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4JF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4JG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4JH	Bypass Right Common Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4JJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4JK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4JQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4JR	Bypass Right Common Iliac Artery to Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4K0	Bypass Right Common Iliac Artery to Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041C4K1	Bypass Right Common Iliac Artery to Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4K2	Bypass Right Common Iliac Artery to Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4K3	Bypass Right Common Iliac Artery to Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4K4	Bypass Right Common Iliac Artery to Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4K5	Bypass Right Common Iliac Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4K6	Bypass Right Common Iliac Artery to Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4K7	Bypass Right Common Iliac Artery to Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4K8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4K9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4KB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4KC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4KD	Bypass Right Common Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4KF	Bypass Right Common Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4KG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4KH	Bypass Right Common Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4KJ	Bypass Right Common Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4KK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4KQ	Bypass Right Common Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4KR	Bypass Right Common Iliac Artery to Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4Z0	Bypass Right Common Iliac Artery to Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4Z1	Bypass Right Common Iliac Artery to Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4Z2	Bypass Right Common Iliac Artery to Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041C4Z3	Bypass Right Common Iliac Artery to Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4Z4	Bypass Right Common Iliac Artery to Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4Z5	Bypass Right Common Iliac Artery to Bilateral Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4Z6	Bypass Right Common Iliac Artery to Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4Z7	Bypass Right Common Iliac Artery to Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4Z8	Bypass Right Common Iliac Artery to Bilateral Common Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4Z9	Bypass Right Common Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4ZB	Bypass Right Common Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4ZC	Bypass Right Common Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4ZD	Bypass Right Common Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4ZF	Bypass Right Common Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4ZG	Bypass Right Common Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4ZH	Bypass Right Common Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4ZJ	Bypass Right Common Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4ZK	Bypass Right Common Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4ZQ	Bypass Right Common Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041C4ZR	Bypass Right Common Iliac Artery to Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D090	Bypass Left Common Iliac Artery to Abdominal Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D091	Bypass Left Common Iliac Artery to Celiac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D092	Bypass Left Common Iliac Artery to Mesenteric Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D093	Bypass Left Common Iliac Artery to Right Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D094	Bypass Left Common Iliac Artery to Left Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041D095	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D096	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D097	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D098	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D099	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D09B	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D09C	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D09D	Bypass Left Common Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D09F	Bypass Left Common Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D09G	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D09H	Bypass Left Common Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D09J	Bypass Left Common Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D09K	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D09Q	Bypass Left Common Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D09R	Bypass Left Common Iliac Artery to Lower Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041D0A0	Bypass Left Common Iliac Artery to Abdominal Aorta with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0A1	Bypass Left Common Iliac Artery to Celiac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0A2	Bypass Left Common Iliac Artery to Mesenteric Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0A3	Bypass Left Common Iliac Artery to Right Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0A4	Bypass Left Common Iliac Artery to Left Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0A5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0A6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041D0A7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0A8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0A9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0AB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0AC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0AD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0AF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0AG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0AH	Bypass Left Common Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0AJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0AK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0AQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0AR	Bypass Left Common Iliac Artery to Lower Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041D0J0	Bypass Left Common Iliac Artery to Abdominal Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0J1	Bypass Left Common Iliac Artery to Celiac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0J2	Bypass Left Common Iliac Artery to Mesenteric Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0J3	Bypass Left Common Iliac Artery to Right Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0J4	Bypass Left Common Iliac Artery to Left Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0J5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0J6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0J7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0J8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041D0J9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0JB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0JC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0JD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0JF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0JG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0JH	Bypass Left Common Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0JJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0JK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0JQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0JR	Bypass Left Common Iliac Artery to Lower Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041D0K0	Bypass Left Common Iliac Artery to Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0K1	Bypass Left Common Iliac Artery to Celiac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0K2	Bypass Left Common Iliac Artery to Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0K3	Bypass Left Common Iliac Artery to Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0K4	Bypass Left Common Iliac Artery to Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0K5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0K6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0K7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0K8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0K9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0KB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041D0KC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0KD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0KF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0KG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0KH	Bypass Left Common Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0KJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0KK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0KQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0KR	Bypass Left Common Iliac Artery to Lower Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041D0Z0	Bypass Left Common Iliac Artery to Abdominal Aorta, Open Approach	PX	ICD-10-PCS
041D0Z1	Bypass Left Common Iliac Artery to Celiac Artery, Open Approach	PX	ICD-10-PCS
041D0Z2	Bypass Left Common Iliac Artery to Mesenteric Artery, Open Approach	PX	ICD-10-PCS
041D0Z3	Bypass Left Common Iliac Artery to Right Renal Artery, Open Approach	PX	ICD-10-PCS
041D0Z4	Bypass Left Common Iliac Artery to Left Renal Artery, Open Approach	PX	ICD-10-PCS
041D0Z5	Bypass Left Common Iliac Artery to Bilateral Renal Artery, Open Approach	PX	ICD-10-PCS
041D0Z6	Bypass Left Common Iliac Artery to Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
041D0Z7	Bypass Left Common Iliac Artery to Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
041D0Z8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries, Open Approach	PX	ICD-10-PCS
041D0Z9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
041D0ZB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
041D0ZC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	PX	ICD-10-PCS
041D0ZD	Bypass Left Common Iliac Artery to Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
041D0ZF	Bypass Left Common Iliac Artery to Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
041D0ZG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries, Open Approach	PX	ICD-10-PCS
041D0ZH	Bypass Left Common Iliac Artery to Right Femoral Artery, Open Approach	PX	ICD-10-PCS
041D0ZJ	Bypass Left Common Iliac Artery to Left Femoral Artery, Open Approach	PX	ICD-10-PCS
041D0ZK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries, Open Approach	PX	ICD-10-PCS
041D0ZQ	Bypass Left Common Iliac Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041D0ZR	Bypass Left Common Iliac Artery to Lower Artery, Open Approach	PX	ICD-10-PCS
041D490	Bypass Left Common Iliac Artery to Abdominal Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D491	Bypass Left Common Iliac Artery to Celiac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041D492	Bypass Left Common Iliac Artery to Mesenteric Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D493	Bypass Left Common Iliac Artery to Right Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D494	Bypass Left Common Iliac Artery to Left Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D495	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D496	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D497	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D498	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D499	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D49B	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D49C	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D49D	Bypass Left Common Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D49F	Bypass Left Common Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D49G	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D49H	Bypass Left Common Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D49J	Bypass Left Common Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D49K	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D49Q	Bypass Left Common Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D49R	Bypass Left Common Iliac Artery to Lower Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4A0	Bypass Left Common Iliac Artery to Abdominal Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4A1	Bypass Left Common Iliac Artery to Celiac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4A2	Bypass Left Common Iliac Artery to Mesenteric Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4A3	Bypass Left Common Iliac Artery to Right Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041D4A4	Bypass Left Common Iliac Artery to Left Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4A5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4A6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4A7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4A8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4A9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4AB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4AC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4AD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4AF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4AG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4AH	Bypass Left Common Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4AJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4AK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4AQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4AR	Bypass Left Common Iliac Artery to Lower Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4J0	Bypass Left Common Iliac Artery to Abdominal Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4J1	Bypass Left Common Iliac Artery to Celiac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4J2	Bypass Left Common Iliac Artery to Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4J3	Bypass Left Common Iliac Artery to Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4J4	Bypass Left Common Iliac Artery to Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4J5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041D4J6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4J7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4J8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4J9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4JB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4JC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4JD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4JF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4JG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4JH	Bypass Left Common Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4JJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4JK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4JQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4JR	Bypass Left Common Iliac Artery to Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4K0	Bypass Left Common Iliac Artery to Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4K1	Bypass Left Common Iliac Artery to Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4K2	Bypass Left Common Iliac Artery to Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4K3	Bypass Left Common Iliac Artery to Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4K4	Bypass Left Common Iliac Artery to Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4K5	Bypass Left Common Iliac Artery to Bilateral Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4K6	Bypass Left Common Iliac Artery to Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4K7	Bypass Left Common Iliac Artery to Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041D4K8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4K9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4KB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4KC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4KD	Bypass Left Common Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4KF	Bypass Left Common Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4KG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4KH	Bypass Left Common Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4KJ	Bypass Left Common Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4KK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4KQ	Bypass Left Common Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4KR	Bypass Left Common Iliac Artery to Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4Z0	Bypass Left Common Iliac Artery to Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4Z1	Bypass Left Common Iliac Artery to Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4Z2	Bypass Left Common Iliac Artery to Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4Z3	Bypass Left Common Iliac Artery to Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4Z4	Bypass Left Common Iliac Artery to Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4Z5	Bypass Left Common Iliac Artery to Bilateral Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4Z6	Bypass Left Common Iliac Artery to Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4Z7	Bypass Left Common Iliac Artery to Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4Z8	Bypass Left Common Iliac Artery to Bilateral Common Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4Z9	Bypass Left Common Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041D4ZB	Bypass Left Common Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4ZC	Bypass Left Common Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4ZD	Bypass Left Common Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4ZF	Bypass Left Common Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4ZG	Bypass Left Common Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4ZH	Bypass Left Common Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4ZJ	Bypass Left Common Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4ZK	Bypass Left Common Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4ZQ	Bypass Left Common Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041D4ZR	Bypass Left Common Iliac Artery to Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E099	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E09B	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E09C	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E09D	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E09F	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E09G	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E09H	Bypass Right Internal Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E09J	Bypass Right Internal Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E09K	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E09P	Bypass Right Internal Iliac Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E09Q	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041E0A9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041E0AB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041E0AC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041E0AD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041E0AF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041E0AG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041E0AH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041E0AJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041E0AK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041E0AP	Bypass Right Internal Iliac Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041E0AQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041E0J9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0JB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0JC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0JD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0JF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0JG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0JH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0JJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0JK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0JP	Bypass Right Internal Iliac Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0JQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041E0K9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041E0KB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041E0KC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041E0KD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041E0KF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041E0KG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041E0KH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041E0KJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041E0KK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041E0KP	Bypass Right Internal Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041E0KQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041E0Z9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
041E0ZB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
041E0ZC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	PX	ICD-10-PCS
041E0ZD	Bypass Right Internal Iliac Artery to Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
041E0ZF	Bypass Right Internal Iliac Artery to Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
041E0ZG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries, Open Approach	PX	ICD-10-PCS
041E0ZH	Bypass Right Internal Iliac Artery to Right Femoral Artery, Open Approach	PX	ICD-10-PCS
041E0ZJ	Bypass Right Internal Iliac Artery to Left Femoral Artery, Open Approach	PX	ICD-10-PCS
041E0ZK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries, Open Approach	PX	ICD-10-PCS
041E0ZP	Bypass Right Internal Iliac Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041E0ZQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041E499	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E49B	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E49C	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E49D	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E49F	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E49G	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041E49H	Bypass Right Internal Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E49J	Bypass Right Internal Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E49K	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E49P	Bypass Right Internal Iliac Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E49Q	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4A9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4AB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4AC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4AD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4AF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4AG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4AH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4AJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4AK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4AP	Bypass Right Internal Iliac Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4AQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4J9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4JB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4JC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4JD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4JF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4JG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041E4JH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4JJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4JK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4JP	Bypass Right Internal Iliac Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4JQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4K9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4KB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4KC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4KD	Bypass Right Internal Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4KF	Bypass Right Internal Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4KG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4KH	Bypass Right Internal Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4KJ	Bypass Right Internal Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4KK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4KP	Bypass Right Internal Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4KQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4Z9	Bypass Right Internal Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4ZB	Bypass Right Internal Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4ZC	Bypass Right Internal Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4ZD	Bypass Right Internal Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4ZF	Bypass Right Internal Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4ZG	Bypass Right Internal Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041E4ZH	Bypass Right Internal Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4ZJ	Bypass Right Internal Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4ZK	Bypass Right Internal Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4ZP	Bypass Right Internal Iliac Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041E4ZQ	Bypass Right Internal Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F099	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F09B	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F09C	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F09D	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F09F	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F09G	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F09H	Bypass Left Internal Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F09J	Bypass Left Internal Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F09K	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F09P	Bypass Left Internal Iliac Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F09Q	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041F0A9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041F0AB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041F0AC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041F0AD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041F0AF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041F0AG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041F0AH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041F0AJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041F0AK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041F0AP	Bypass Left Internal Iliac Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041F0AQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041F0J9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0JB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0JC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0JD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0JF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0JG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0JH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0JJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0JK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0JP	Bypass Left Internal Iliac Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0JQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041F0K9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041F0KB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041F0KC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041F0KD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041F0KF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041F0KG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041F0KH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041F0KJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041F0KK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041F0KP	Bypass Left Internal Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041F0KQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041F0Z9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
041F0ZB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
041F0ZC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	PX	ICD-10-PCS
041F0ZD	Bypass Left Internal Iliac Artery to Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
041F0ZF	Bypass Left Internal Iliac Artery to Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
041F0ZG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries, Open Approach	PX	ICD-10-PCS
041F0ZH	Bypass Left Internal Iliac Artery to Right Femoral Artery, Open Approach	PX	ICD-10-PCS
041F0ZJ	Bypass Left Internal Iliac Artery to Left Femoral Artery, Open Approach	PX	ICD-10-PCS
041F0ZK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries, Open Approach	PX	ICD-10-PCS
041F0ZP	Bypass Left Internal Iliac Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041F0ZQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041F499	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F49B	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F49C	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F49D	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F49F	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F49G	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F49H	Bypass Left Internal Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F49J	Bypass Left Internal Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F49K	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F49P	Bypass Left Internal Iliac Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F49Q	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041F4A9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4AB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4AC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4AD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4AF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4AG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4AH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4AJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4AK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4AP	Bypass Left Internal Iliac Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4AQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4J9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4JB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4JC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4JD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4JF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4JG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4JH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4JJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4JK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4JP	Bypass Left Internal Iliac Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4JQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041F4K9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4KB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4KC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4KD	Bypass Left Internal Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4KF	Bypass Left Internal Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4KG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4KH	Bypass Left Internal Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4KJ	Bypass Left Internal Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4KK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4KP	Bypass Left Internal Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4KQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4Z9	Bypass Left Internal Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4ZB	Bypass Left Internal Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4ZC	Bypass Left Internal Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4ZD	Bypass Left Internal Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4ZF	Bypass Left Internal Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4ZG	Bypass Left Internal Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4ZH	Bypass Left Internal Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4ZJ	Bypass Left Internal Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4ZK	Bypass Left Internal Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4ZP	Bypass Left Internal Iliac Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041F4ZQ	Bypass Left Internal Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041H099	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H09B	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H09C	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H09D	Bypass Right External Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H09F	Bypass Right External Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H09G	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H09H	Bypass Right External Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H09J	Bypass Right External Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H09K	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H09P	Bypass Right External Iliac Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H09Q	Bypass Right External Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041H0A9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041H0AB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041H0AC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041H0AD	Bypass Right External Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041H0AF	Bypass Right External Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041H0AG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041H0AH	Bypass Right External Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041H0AJ	Bypass Right External Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041H0AK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041H0AP	Bypass Right External Iliac Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041H0AQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041H0J9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0JB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0JC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0JD	Bypass Right External Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0JF	Bypass Right External Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0JG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0JH	Bypass Right External Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0JJ	Bypass Right External Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0JK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0JP	Bypass Right External Iliac Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0JQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041H0K9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0KB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0KC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0KD	Bypass Right External Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0KF	Bypass Right External Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0KG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0KH	Bypass Right External Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0KJ	Bypass Right External Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0KK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0KP	Bypass Right External Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0KQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041H0Z9	Bypass Right External Iliac Artery to Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041H0ZB	Bypass Right External Iliac Artery to Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
041H0ZC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	PX	ICD-10-PCS
041H0ZD	Bypass Right External Iliac Artery to Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
041H0ZF	Bypass Right External Iliac Artery to Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
041H0ZG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries, Open Approach	PX	ICD-10-PCS
041H0ZH	Bypass Right External Iliac Artery to Right Femoral Artery, Open Approach	PX	ICD-10-PCS
041H0ZJ	Bypass Right External Iliac Artery to Left Femoral Artery, Open Approach	PX	ICD-10-PCS
041H0ZK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries, Open Approach	PX	ICD-10-PCS
041H0ZP	Bypass Right External Iliac Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041H0ZQ	Bypass Right External Iliac Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041H499	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H49B	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H49C	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H49D	Bypass Right External Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H49F	Bypass Right External Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H49G	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H49H	Bypass Right External Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H49J	Bypass Right External Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H49K	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H49P	Bypass Right External Iliac Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H49Q	Bypass Right External Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4A9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4AB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4AC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4AD	Bypass Right External Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4AF	Bypass Right External Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041H4AG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4AH	Bypass Right External Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4AJ	Bypass Right External Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4AK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4AP	Bypass Right External Iliac Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4AQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4J9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4JB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4JC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4JD	Bypass Right External Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4JF	Bypass Right External Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4JG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4JH	Bypass Right External Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4JJ	Bypass Right External Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4JK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4JP	Bypass Right External Iliac Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4JQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4K9	Bypass Right External Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4KB	Bypass Right External Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4KC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4KD	Bypass Right External Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4KF	Bypass Right External Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041H4KG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4KH	Bypass Right External Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4KJ	Bypass Right External Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4KK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4KP	Bypass Right External Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4KQ	Bypass Right External Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4Z9	Bypass Right External Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4ZB	Bypass Right External Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4ZC	Bypass Right External Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4ZD	Bypass Right External Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4ZF	Bypass Right External Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4ZG	Bypass Right External Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4ZH	Bypass Right External Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4ZJ	Bypass Right External Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4ZK	Bypass Right External Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4ZP	Bypass Right External Iliac Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041H4ZQ	Bypass Right External Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J099	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041J09B	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041J09C	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041J09D	Bypass Left External Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041J09F	Bypass Left External Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041J09G	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041J09H	Bypass Left External Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041J09J	Bypass Left External Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041J09K	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041J09P	Bypass Left External Iliac Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041J09Q	Bypass Left External Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041J0A9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0AB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0AC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0AD	Bypass Left External Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0AF	Bypass Left External Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0AG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0AH	Bypass Left External Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0AJ	Bypass Left External Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0AK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0AP	Bypass Left External Iliac Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0AQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041J0J9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041J0JB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041J0JC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041J0JD	Bypass Left External Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041J0JF	Bypass Left External Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041J0JG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041J0JH	Bypass Left External Iliac Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041J0JJ	Bypass Left External Iliac Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041J0JK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041J0JP	Bypass Left External Iliac Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041J0JQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041J0K9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0KB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0KC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0KD	Bypass Left External Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0KF	Bypass Left External Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0KG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0KH	Bypass Left External Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0KJ	Bypass Left External Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0KK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0KP	Bypass Left External Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0KQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041J0Z9	Bypass Left External Iliac Artery to Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
041J0ZB	Bypass Left External Iliac Artery to Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
041J0ZC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries, Open Approach	PX	ICD-10-PCS
041J0ZD	Bypass Left External Iliac Artery to Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
041J0ZF	Bypass Left External Iliac Artery to Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
041J0ZG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries, Open Approach	PX	ICD-10-PCS
041J0ZH	Bypass Left External Iliac Artery to Right Femoral Artery, Open Approach	PX	ICD-10-PCS
041J0ZJ	Bypass Left External Iliac Artery to Left Femoral Artery, Open Approach	PX	ICD-10-PCS
041J0ZK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041J0ZP	Bypass Left External Iliac Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041J0ZQ	Bypass Left External Iliac Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041J499	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J49B	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J49C	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J49D	Bypass Left External Iliac Artery to Right External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J49F	Bypass Left External Iliac Artery to Left External Iliac Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J49G	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J49H	Bypass Left External Iliac Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J49J	Bypass Left External Iliac Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J49K	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J49P	Bypass Left External Iliac Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J49Q	Bypass Left External Iliac Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4A9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4AB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4AC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4AD	Bypass Left External Iliac Artery to Right External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4AF	Bypass Left External Iliac Artery to Left External Iliac Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4AG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4AH	Bypass Left External Iliac Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4AJ	Bypass Left External Iliac Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4AK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4AP	Bypass Left External Iliac Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041J4AQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4J9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4JB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4JC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4JD	Bypass Left External Iliac Artery to Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4JF	Bypass Left External Iliac Artery to Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4JG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4JH	Bypass Left External Iliac Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4JJ	Bypass Left External Iliac Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4JK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4JP	Bypass Left External Iliac Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4JQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4K9	Bypass Left External Iliac Artery to Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4KB	Bypass Left External Iliac Artery to Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4KC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4KD	Bypass Left External Iliac Artery to Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4KF	Bypass Left External Iliac Artery to Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4KG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4KH	Bypass Left External Iliac Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4KJ	Bypass Left External Iliac Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4KK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4KP	Bypass Left External Iliac Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041J4KQ	Bypass Left External Iliac Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4Z9	Bypass Left External Iliac Artery to Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4ZB	Bypass Left External Iliac Artery to Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4ZC	Bypass Left External Iliac Artery to Bilateral Internal Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4ZD	Bypass Left External Iliac Artery to Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4ZF	Bypass Left External Iliac Artery to Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4ZG	Bypass Left External Iliac Artery to Bilateral External Iliac Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4ZH	Bypass Left External Iliac Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4ZJ	Bypass Left External Iliac Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4ZK	Bypass Left External Iliac Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4ZP	Bypass Left External Iliac Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041J4ZQ	Bypass Left External Iliac Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K09H	Bypass Right Femoral Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041K09J	Bypass Right Femoral Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041K09K	Bypass Right Femoral Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041K09L	Bypass Right Femoral Artery to Popliteal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041K09M	Bypass Right Femoral Artery to Peroneal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041K09N	Bypass Right Femoral Artery to Posterior Tibial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041K09P	Bypass Right Femoral Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041K09Q	Bypass Right Femoral Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041K09S	Bypass Right Femoral Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041K0AH	Bypass Right Femoral Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041K0AJ	Bypass Right Femoral Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041K0AK	Bypass Right Femoral Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041K0AL	Bypass Right Femoral Artery to Popliteal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041K0AM	Bypass Right Femoral Artery to Peroneal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041K0AN	Bypass Right Femoral Artery to Posterior Tibial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041K0AP	Bypass Right Femoral Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041K0AQ	Bypass Right Femoral Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041K0AS	Bypass Right Femoral Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041K0JH	Bypass Right Femoral Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041K0JJ	Bypass Right Femoral Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041K0JK	Bypass Right Femoral Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041K0JL	Bypass Right Femoral Artery to Popliteal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041K0JM	Bypass Right Femoral Artery to Peroneal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041K0JN	Bypass Right Femoral Artery to Posterior Tibial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041K0JP	Bypass Right Femoral Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041K0JQ	Bypass Right Femoral Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041K0JS	Bypass Right Femoral Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041K0KH	Bypass Right Femoral Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041K0KJ	Bypass Right Femoral Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041K0KK	Bypass Right Femoral Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041K0KL	Bypass Right Femoral Artery to Popliteal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041K0KM	Bypass Right Femoral Artery to Peroneal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041K0KN	Bypass Right Femoral Artery to Posterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041K0KP	Bypass Right Femoral Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041K0KQ	Bypass Right Femoral Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041K0KS	Bypass Right Femoral Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041K0ZH	Bypass Right Femoral Artery to Right Femoral Artery, Open Approach	PX	ICD-10-PCS
041K0ZJ	Bypass Right Femoral Artery to Left Femoral Artery, Open Approach	PX	ICD-10-PCS
041K0ZK	Bypass Right Femoral Artery to Bilateral Femoral Arteries, Open Approach	PX	ICD-10-PCS
041K0ZL	Bypass Right Femoral Artery to Popliteal Artery, Open Approach	PX	ICD-10-PCS
041K0ZM	Bypass Right Femoral Artery to Peroneal Artery, Open Approach	PX	ICD-10-PCS
041K0ZN	Bypass Right Femoral Artery to Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
041K0ZP	Bypass Right Femoral Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041K0ZQ	Bypass Right Femoral Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041K0ZS	Bypass Right Femoral Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
041K3JQ	Bypass Right Femoral Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041K3JS	Bypass Right Femoral Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041K49H	Bypass Right Femoral Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K49J	Bypass Right Femoral Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K49K	Bypass Right Femoral Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K49L	Bypass Right Femoral Artery to Popliteal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K49M	Bypass Right Femoral Artery to Peroneal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K49N	Bypass Right Femoral Artery to Posterior Tibial Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K49P	Bypass Right Femoral Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K49Q	Bypass Right Femoral Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K49S	Bypass Right Femoral Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4AH	Bypass Right Femoral Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4AJ	Bypass Right Femoral Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4AK	Bypass Right Femoral Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041K4AL	Bypass Right Femoral Artery to Popliteal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4AM	Bypass Right Femoral Artery to Peroneal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4AN	Bypass Right Femoral Artery to Posterior Tibial Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4AP	Bypass Right Femoral Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4AQ	Bypass Right Femoral Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4AS	Bypass Right Femoral Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4JH	Bypass Right Femoral Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4JJ	Bypass Right Femoral Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4JK	Bypass Right Femoral Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4JL	Bypass Right Femoral Artery to Popliteal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4JM	Bypass Right Femoral Artery to Peroneal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4JN	Bypass Right Femoral Artery to Posterior Tibial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4JP	Bypass Right Femoral Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4JQ	Bypass Right Femoral Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4JS	Bypass Right Femoral Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4KH	Bypass Right Femoral Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4KJ	Bypass Right Femoral Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4KK	Bypass Right Femoral Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4KL	Bypass Right Femoral Artery to Popliteal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4KM	Bypass Right Femoral Artery to Peroneal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4KN	Bypass Right Femoral Artery to Posterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4KP	Bypass Right Femoral Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041K4KQ	Bypass Right Femoral Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4KS	Bypass Right Femoral Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4ZH	Bypass Right Femoral Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4ZJ	Bypass Right Femoral Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4ZK	Bypass Right Femoral Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4ZL	Bypass Right Femoral Artery to Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4ZM	Bypass Right Femoral Artery to Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4ZN	Bypass Right Femoral Artery to Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4ZP	Bypass Right Femoral Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4ZQ	Bypass Right Femoral Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041K4ZS	Bypass Right Femoral Artery to Lower Extremity Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L09H	Bypass Left Femoral Artery to Right Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041L09J	Bypass Left Femoral Artery to Left Femoral Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041L09K	Bypass Left Femoral Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041L09L	Bypass Left Femoral Artery to Popliteal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041L09M	Bypass Left Femoral Artery to Peroneal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041L09N	Bypass Left Femoral Artery to Posterior Tibial Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041L09P	Bypass Left Femoral Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041L09Q	Bypass Left Femoral Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041L09S	Bypass Left Femoral Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041L0AH	Bypass Left Femoral Artery to Right Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041L0AJ	Bypass Left Femoral Artery to Left Femoral Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041L0AK	Bypass Left Femoral Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041L0AL	Bypass Left Femoral Artery to Popliteal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041L0AM	Bypass Left Femoral Artery to Peroneal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041L0AN	Bypass Left Femoral Artery to Posterior Tibial Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041L0AP	Bypass Left Femoral Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041L0AQ	Bypass Left Femoral Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041L0AS	Bypass Left Femoral Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041L0JH	Bypass Left Femoral Artery to Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041L0JJ	Bypass Left Femoral Artery to Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041L0JK	Bypass Left Femoral Artery to Bilateral Femoral Arteries with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041L0JL	Bypass Left Femoral Artery to Popliteal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041L0JM	Bypass Left Femoral Artery to Peroneal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041L0JN	Bypass Left Femoral Artery to Posterior Tibial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041L0JP	Bypass Left Femoral Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041L0JQ	Bypass Left Femoral Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041L0JS	Bypass Left Femoral Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041L0KH	Bypass Left Femoral Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041L0KJ	Bypass Left Femoral Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041L0KK	Bypass Left Femoral Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041L0KL	Bypass Left Femoral Artery to Popliteal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041L0KM	Bypass Left Femoral Artery to Peroneal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041L0KN	Bypass Left Femoral Artery to Posterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041L0KP	Bypass Left Femoral Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041L0KQ	Bypass Left Femoral Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041L0KS	Bypass Left Femoral Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041L0ZH	Bypass Left Femoral Artery to Right Femoral Artery, Open Approach	PX	ICD-10-PCS
041L0ZJ	Bypass Left Femoral Artery to Left Femoral Artery, Open Approach	PX	ICD-10-PCS
041L0ZK	Bypass Left Femoral Artery to Bilateral Femoral Arteries, Open Approach	PX	ICD-10-PCS
041L0ZL	Bypass Left Femoral Artery to Popliteal Artery, Open Approach	PX	ICD-10-PCS
041L0ZM	Bypass Left Femoral Artery to Peroneal Artery, Open Approach	PX	ICD-10-PCS
041L0ZN	Bypass Left Femoral Artery to Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
041L0ZP	Bypass Left Femoral Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041L0ZQ	Bypass Left Femoral Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041L0ZS	Bypass Left Femoral Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
041L3JQ	Bypass Left Femoral Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041L3JS	Bypass Left Femoral Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041L49H	Bypass Left Femoral Artery to Right Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L49J	Bypass Left Femoral Artery to Left Femoral Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L49K	Bypass Left Femoral Artery to Bilateral Femoral Arteries with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L49L	Bypass Left Femoral Artery to Popliteal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L49M	Bypass Left Femoral Artery to Peroneal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L49N	Bypass Left Femoral Artery to Posterior Tibial Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L49P	Bypass Left Femoral Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L49Q	Bypass Left Femoral Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L49S	Bypass Left Femoral Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4AH	Bypass Left Femoral Artery to Right Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4AJ	Bypass Left Femoral Artery to Left Femoral Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4AK	Bypass Left Femoral Artery to Bilateral Femoral Arteries with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4AL	Bypass Left Femoral Artery to Popliteal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4AM	Bypass Left Femoral Artery to Peroneal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041L4AN	Bypass Left Femoral Artery to Posterior Tibial Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4AP	Bypass Left Femoral Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4AQ	Bypass Left Femoral Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4AS	Bypass Left Femoral Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4JH	Bypass Left Femoral Artery to Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4JJ	Bypass Left Femoral Artery to Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4JK	Bypass Left Femoral Artery to Bilateral Femoral Arteries with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4JL	Bypass Left Femoral Artery to Popliteal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4JM	Bypass Left Femoral Artery to Peroneal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4JN	Bypass Left Femoral Artery to Posterior Tibial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4JP	Bypass Left Femoral Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4JQ	Bypass Left Femoral Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4JS	Bypass Left Femoral Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4KH	Bypass Left Femoral Artery to Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4KJ	Bypass Left Femoral Artery to Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4KK	Bypass Left Femoral Artery to Bilateral Femoral Arteries with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4KL	Bypass Left Femoral Artery to Popliteal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4KM	Bypass Left Femoral Artery to Peroneal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4KN	Bypass Left Femoral Artery to Posterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4KP	Bypass Left Femoral Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4KQ	Bypass Left Femoral Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4KS	Bypass Left Femoral Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041L4ZH	Bypass Left Femoral Artery to Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4ZJ	Bypass Left Femoral Artery to Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4ZK	Bypass Left Femoral Artery to Bilateral Femoral Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4ZL	Bypass Left Femoral Artery to Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4ZM	Bypass Left Femoral Artery to Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4ZN	Bypass Left Femoral Artery to Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4ZP	Bypass Left Femoral Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4ZQ	Bypass Left Femoral Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041L4ZS	Bypass Left Femoral Artery to Lower Extremity Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M09L	Bypass Right Popliteal Artery to Popliteal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041M09M	Bypass Right Popliteal Artery to Peroneal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041M09P	Bypass Right Popliteal Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041M09Q	Bypass Right Popliteal Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041M09S	Bypass Right Popliteal Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041M0AL	Bypass Right Popliteal Artery to Popliteal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041M0AM	Bypass Right Popliteal Artery to Peroneal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041M0AP	Bypass Right Popliteal Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041M0AQ	Bypass Right Popliteal Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041M0AS	Bypass Right Popliteal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041M0JL	Bypass Right Popliteal Artery to Popliteal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041M0JM	Bypass Right Popliteal Artery to Peroneal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041M0JP	Bypass Right Popliteal Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041M0JQ	Bypass Right Popliteal Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041M0JS	Bypass Right Popliteal Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041M0KL	Bypass Right Popliteal Artery to Popliteal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041M0KM	Bypass Right Popliteal Artery to Peroneal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041M0KP	Bypass Right Popliteal Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041M0KQ	Bypass Right Popliteal Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041M0KS	Bypass Right Popliteal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041M0ZL	Bypass Right Popliteal Artery to Popliteal Artery, Open Approach	PX	ICD-10-PCS
041M0ZM	Bypass Right Popliteal Artery to Peroneal Artery, Open Approach	PX	ICD-10-PCS
041M0ZP	Bypass Right Popliteal Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041M0ZQ	Bypass Right Popliteal Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041M0ZS	Bypass Right Popliteal Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
041M3JQ	Bypass Right Popliteal Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041M3JS	Bypass Right Popliteal Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041M49L	Bypass Right Popliteal Artery to Popliteal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M49M	Bypass Right Popliteal Artery to Peroneal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M49P	Bypass Right Popliteal Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M49Q	Bypass Right Popliteal Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M49S	Bypass Right Popliteal Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4AL	Bypass Right Popliteal Artery to Popliteal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4AM	Bypass Right Popliteal Artery to Peroneal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4AP	Bypass Right Popliteal Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4AQ	Bypass Right Popliteal Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4AS	Bypass Right Popliteal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4JL	Bypass Right Popliteal Artery to Popliteal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4JM	Bypass Right Popliteal Artery to Peroneal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041M4JP	Bypass Right Popliteal Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4JQ	Bypass Right Popliteal Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4JS	Bypass Right Popliteal Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4KL	Bypass Right Popliteal Artery to Popliteal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4KM	Bypass Right Popliteal Artery to Peroneal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4KP	Bypass Right Popliteal Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4KQ	Bypass Right Popliteal Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4KS	Bypass Right Popliteal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4ZL	Bypass Right Popliteal Artery to Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4ZM	Bypass Right Popliteal Artery to Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4ZP	Bypass Right Popliteal Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4ZQ	Bypass Right Popliteal Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041M4ZS	Bypass Right Popliteal Artery to Lower Extremity Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N09L	Bypass Left Popliteal Artery to Popliteal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041N09M	Bypass Left Popliteal Artery to Peroneal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041N09P	Bypass Left Popliteal Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041N09Q	Bypass Left Popliteal Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041N09S	Bypass Left Popliteal Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041N0AL	Bypass Left Popliteal Artery to Popliteal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041N0AM	Bypass Left Popliteal Artery to Peroneal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041N0AP	Bypass Left Popliteal Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041N0AQ	Bypass Left Popliteal Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041N0AS	Bypass Left Popliteal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041N0JL	Bypass Left Popliteal Artery to Popliteal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041N0JM	Bypass Left Popliteal Artery to Peroneal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041N0JP	Bypass Left Popliteal Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041N0JQ	Bypass Left Popliteal Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041N0JS	Bypass Left Popliteal Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041N0KL	Bypass Left Popliteal Artery to Popliteal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041N0KM	Bypass Left Popliteal Artery to Peroneal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041N0KP	Bypass Left Popliteal Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041N0KQ	Bypass Left Popliteal Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041N0KS	Bypass Left Popliteal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041N0ZL	Bypass Left Popliteal Artery to Popliteal Artery, Open Approach	PX	ICD-10-PCS
041N0ZM	Bypass Left Popliteal Artery to Peroneal Artery, Open Approach	PX	ICD-10-PCS
041N0ZP	Bypass Left Popliteal Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041N0ZQ	Bypass Left Popliteal Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041N0ZS	Bypass Left Popliteal Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
041N3JQ	Bypass Left Popliteal Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041N3JS	Bypass Left Popliteal Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041N49L	Bypass Left Popliteal Artery to Popliteal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N49M	Bypass Left Popliteal Artery to Peroneal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N49P	Bypass Left Popliteal Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N49Q	Bypass Left Popliteal Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N49S	Bypass Left Popliteal Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4AL	Bypass Left Popliteal Artery to Popliteal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4AM	Bypass Left Popliteal Artery to Peroneal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041N4AP	Bypass Left Popliteal Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4AQ	Bypass Left Popliteal Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4AS	Bypass Left Popliteal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4JL	Bypass Left Popliteal Artery to Popliteal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4JM	Bypass Left Popliteal Artery to Peroneal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4JP	Bypass Left Popliteal Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4JQ	Bypass Left Popliteal Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4JS	Bypass Left Popliteal Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4KL	Bypass Left Popliteal Artery to Popliteal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4KM	Bypass Left Popliteal Artery to Peroneal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4KP	Bypass Left Popliteal Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4KQ	Bypass Left Popliteal Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4KS	Bypass Left Popliteal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4ZL	Bypass Left Popliteal Artery to Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4ZM	Bypass Left Popliteal Artery to Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4ZP	Bypass Left Popliteal Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4ZQ	Bypass Left Popliteal Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041N4ZS	Bypass Left Popliteal Artery to Lower Extremity Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041P0JQ	Bypass Right Anterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041P0JS	Bypass Right Anterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041P3JQ	Bypass Right Anterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041P3JS	Bypass Right Anterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041P4JQ	Bypass Right Anterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041P4JS	Bypass Right Anterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041Q0JQ	Bypass Left Anterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041Q0JS	Bypass Left Anterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041Q3JQ	Bypass Left Anterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041Q3JS	Bypass Left Anterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041Q4JQ	Bypass Left Anterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041Q4JS	Bypass Left Anterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041R0JQ	Bypass Right Posterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041R0JS	Bypass Right Posterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041R3JQ	Bypass Right Posterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041R3JS	Bypass Right Posterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041R4JQ	Bypass Right Posterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041R4JS	Bypass Right Posterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041S0JQ	Bypass Left Posterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041S0JS	Bypass Left Posterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041S3JQ	Bypass Left Posterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041S3JS	Bypass Left Posterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041S4JQ	Bypass Left Posterior Tibial Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041S4JS	Bypass Left Posterior Tibial Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T09P	Bypass Right Peroneal Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041T09Q	Bypass Right Peroneal Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041T09S	Bypass Right Peroneal Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041T0AP	Bypass Right Peroneal Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041T0AQ	Bypass Right Peroneal Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041T0AS	Bypass Right Peroneal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041T0JP	Bypass Right Peroneal Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041T0JQ	Bypass Right Peroneal Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041T0JS	Bypass Right Peroneal Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041T0KP	Bypass Right Peroneal Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041T0KQ	Bypass Right Peroneal Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041T0KS	Bypass Right Peroneal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041T0ZP	Bypass Right Peroneal Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041T0ZQ	Bypass Right Peroneal Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041T0ZS	Bypass Right Peroneal Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
041T3JQ	Bypass Right Peroneal Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041T3JS	Bypass Right Peroneal Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041T49P	Bypass Right Peroneal Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T49Q	Bypass Right Peroneal Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T49S	Bypass Right Peroneal Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4AP	Bypass Right Peroneal Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4AQ	Bypass Right Peroneal Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4AS	Bypass Right Peroneal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4JP	Bypass Right Peroneal Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4JQ	Bypass Right Peroneal Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4JS	Bypass Right Peroneal Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4KP	Bypass Right Peroneal Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041T4KQ	Bypass Right Peroneal Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4KS	Bypass Right Peroneal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4ZP	Bypass Right Peroneal Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4ZQ	Bypass Right Peroneal Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041T4ZS	Bypass Right Peroneal Artery to Lower Extremity Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U09P	Bypass Left Peroneal Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041U09Q	Bypass Left Peroneal Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041U09S	Bypass Left Peroneal Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041U0AP	Bypass Left Peroneal Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041U0AQ	Bypass Left Peroneal Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041U0AS	Bypass Left Peroneal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041U0JP	Bypass Left Peroneal Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041U0JQ	Bypass Left Peroneal Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041U0JS	Bypass Left Peroneal Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041U0KP	Bypass Left Peroneal Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041U0KQ	Bypass Left Peroneal Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041U0KS	Bypass Left Peroneal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041U0ZP	Bypass Left Peroneal Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041U0ZQ	Bypass Left Peroneal Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041U0ZS	Bypass Left Peroneal Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
041U3JQ	Bypass Left Peroneal Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041U3JS	Bypass Left Peroneal Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041U49P	Bypass Left Peroneal Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U49Q	Bypass Left Peroneal Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041U49S	Bypass Left Peroneal Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4AP	Bypass Left Peroneal Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4AQ	Bypass Left Peroneal Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4AS	Bypass Left Peroneal Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4JP	Bypass Left Peroneal Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4JQ	Bypass Left Peroneal Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4JS	Bypass Left Peroneal Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4KP	Bypass Left Peroneal Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4KQ	Bypass Left Peroneal Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4KS	Bypass Left Peroneal Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4ZP	Bypass Left Peroneal Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4ZQ	Bypass Left Peroneal Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041U4ZS	Bypass Left Peroneal Artery to Lower Extremity Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V09P	Bypass Right Foot Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041V09Q	Bypass Right Foot Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041V09S	Bypass Right Foot Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041V0AP	Bypass Right Foot Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041V0AQ	Bypass Right Foot Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041V0AS	Bypass Right Foot Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041V0JP	Bypass Right Foot Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041V0JQ	Bypass Right Foot Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041V0JS	Bypass Right Foot Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041V0KP	Bypass Right Foot Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041V0KQ	Bypass Right Foot Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041V0KS	Bypass Right Foot Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041V0ZP	Bypass Right Foot Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041V0ZQ	Bypass Right Foot Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041V0ZS	Bypass Right Foot Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
041V3JQ	Bypass Right Foot Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041V3JS	Bypass Right Foot Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041V49P	Bypass Right Foot Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V49Q	Bypass Right Foot Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V49S	Bypass Right Foot Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4AP	Bypass Right Foot Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4AQ	Bypass Right Foot Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4AS	Bypass Right Foot Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4JP	Bypass Right Foot Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4JQ	Bypass Right Foot Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4JS	Bypass Right Foot Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4KP	Bypass Right Foot Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4KQ	Bypass Right Foot Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4KS	Bypass Right Foot Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4ZP	Bypass Right Foot Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4ZQ	Bypass Right Foot Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041V4ZS	Bypass Right Foot Artery to Lower Extremity Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W09P	Bypass Left Foot Artery to Foot Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041W09Q	Bypass Left Foot Artery to Lower Extremity Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041W09S	Bypass Left Foot Artery to Lower Extremity Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
041W0AP	Bypass Left Foot Artery to Foot Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041W0AQ	Bypass Left Foot Artery to Lower Extremity Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041W0AS	Bypass Left Foot Artery to Lower Extremity Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
041W0JP	Bypass Left Foot Artery to Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041W0JQ	Bypass Left Foot Artery to Lower Extremity Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041W0JS	Bypass Left Foot Artery to Lower Extremity Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
041W0KP	Bypass Left Foot Artery to Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041W0KQ	Bypass Left Foot Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041W0KS	Bypass Left Foot Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
041W0ZP	Bypass Left Foot Artery to Foot Artery, Open Approach	PX	ICD-10-PCS
041W0ZQ	Bypass Left Foot Artery to Lower Extremity Artery, Open Approach	PX	ICD-10-PCS
041W0ZS	Bypass Left Foot Artery to Lower Extremity Vein, Open Approach	PX	ICD-10-PCS
041W3JQ	Bypass Left Foot Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041W3JS	Bypass Left Foot Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
041W49P	Bypass Left Foot Artery to Foot Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W49Q	Bypass Left Foot Artery to Lower Extremity Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W49S	Bypass Left Foot Artery to Lower Extremity Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4AP	Bypass Left Foot Artery to Foot Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4AQ	Bypass Left Foot Artery to Lower Extremity Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4AS	Bypass Left Foot Artery to Lower Extremity Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4JP	Bypass Left Foot Artery to Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4JQ	Bypass Left Foot Artery to Lower Extremity Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4JS	Bypass Left Foot Artery to Lower Extremity Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
041W4KP	Bypass Left Foot Artery to Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4KQ	Bypass Left Foot Artery to Lower Extremity Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4KS	Bypass Left Foot Artery to Lower Extremity Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4ZP	Bypass Left Foot Artery to Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4ZQ	Bypass Left Foot Artery to Lower Extremity Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
041W4ZS	Bypass Left Foot Artery to Lower Extremity Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04500ZZ	Destruction of Abdominal Aorta, Open Approach	PX	ICD-10-PCS
04503ZZ	Destruction of Abdominal Aorta, Percutaneous Approach	PX	ICD-10-PCS
04504ZZ	Destruction of Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04510ZZ	Destruction of Celiac Artery, Open Approach	PX	ICD-10-PCS
04513ZZ	Destruction of Celiac Artery, Percutaneous Approach	PX	ICD-10-PCS
04514ZZ	Destruction of Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04520ZZ	Destruction of Gastric Artery, Open Approach	PX	ICD-10-PCS
04523ZZ	Destruction of Gastric Artery, Percutaneous Approach	PX	ICD-10-PCS
04524ZZ	Destruction of Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04530ZZ	Destruction of Hepatic Artery, Open Approach	PX	ICD-10-PCS
04533ZZ	Destruction of Hepatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04534ZZ	Destruction of Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04540ZZ	Destruction of Splenic Artery, Open Approach	PX	ICD-10-PCS
04543ZZ	Destruction of Splenic Artery, Percutaneous Approach	PX	ICD-10-PCS
04544ZZ	Destruction of Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04550ZZ	Destruction of Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04553ZZ	Destruction of Superior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04554ZZ	Destruction of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04560ZZ	Destruction of Right Colic Artery, Open Approach	PX	ICD-10-PCS
04563ZZ	Destruction of Right Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04564ZZ	Destruction of Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04570ZZ	Destruction of Left Colic Artery, Open Approach	PX	ICD-10-PCS
04573ZZ	Destruction of Left Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04574ZZ	Destruction of Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04580ZZ	Destruction of Middle Colic Artery, Open Approach	PX	ICD-10-PCS
04583ZZ	Destruction of Middle Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04584ZZ	Destruction of Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04590ZZ	Destruction of Right Renal Artery, Open Approach	PX	ICD-10-PCS
04593ZZ	Destruction of Right Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04594ZZ	Destruction of Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045A0ZZ	Destruction of Left Renal Artery, Open Approach	PX	ICD-10-PCS
045A3ZZ	Destruction of Left Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
045A4ZZ	Destruction of Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045B0ZZ	Destruction of Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
045B3ZZ	Destruction of Inferior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
045B4ZZ	Destruction of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045C0ZZ	Destruction of Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
045C3ZZ	Destruction of Right Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
045C4ZZ	Destruction of Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045D0ZZ	Destruction of Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
045D3ZZ	Destruction of Left Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
045D4ZZ	Destruction of Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045E0ZZ	Destruction of Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
045E3ZZ	Destruction of Right Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
045E4ZZ	Destruction of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045F0ZZ	Destruction of Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
045F3ZZ	Destruction of Left Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
045F4ZZ	Destruction of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045H0ZZ	Destruction of Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
045H3ZZ	Destruction of Right External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
045H4ZZ	Destruction of Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045J0ZZ	Destruction of Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
045J3ZZ	Destruction of Left External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
045J4ZZ	Destruction of Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045K0ZZ	Destruction of Right Femoral Artery, Open Approach	PX	ICD-10-PCS
045K3ZZ	Destruction of Right Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
045K4ZZ	Destruction of Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045L0ZZ	Destruction of Left Femoral Artery, Open Approach	PX	ICD-10-PCS
045L3ZZ	Destruction of Left Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
045L4ZZ	Destruction of Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045M0ZZ	Destruction of Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
045M3ZZ	Destruction of Right Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
045M4ZZ	Destruction of Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045N0ZZ	Destruction of Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
045N3ZZ	Destruction of Left Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
045N4ZZ	Destruction of Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045P0ZZ	Destruction of Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
045P3ZZ	Destruction of Right Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
045P4ZZ	Destruction of Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045Q0ZZ	Destruction of Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
045Q3ZZ	Destruction of Left Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
045Q4ZZ	Destruction of Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045R0ZZ	Destruction of Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
045R3ZZ	Destruction of Right Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
045R4ZZ	Destruction of Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045S0ZZ	Destruction of Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
045S3ZZ	Destruction of Left Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
045S4ZZ	Destruction of Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045T0ZZ	Destruction of Right Peroneal Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
045T3ZZ	Destruction of Right Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
045T4ZZ	Destruction of Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045U0ZZ	Destruction of Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
045U3ZZ	Destruction of Left Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
045U4ZZ	Destruction of Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045V0ZZ	Destruction of Right Foot Artery, Open Approach	PX	ICD-10-PCS
045V3ZZ	Destruction of Right Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
045V4ZZ	Destruction of Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045W0ZZ	Destruction of Left Foot Artery, Open Approach	PX	ICD-10-PCS
045W3ZZ	Destruction of Left Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
045W4ZZ	Destruction of Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
045Y0ZZ	Destruction of Lower Artery, Open Approach	PX	ICD-10-PCS
045Y3ZZ	Destruction of Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
045Y4ZZ	Destruction of Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0470041	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
0470046	Dilation of Abdominal Aorta, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047004Z	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0470056	Dilation of Abdominal Aorta, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047005Z	Dilation of Abdominal Aorta with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0470066	Dilation of Abdominal Aorta, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047006Z	Dilation of Abdominal Aorta with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0470076	Dilation of Abdominal Aorta, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047007Z	Dilation of Abdominal Aorta with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04700D1	Dilation of Abdominal Aorta with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04700D6	Dilation of Abdominal Aorta, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04700DZ	Dilation of Abdominal Aorta with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04700E6	Dilation of Abdominal Aorta, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04700EZ	Dilation of Abdominal Aorta with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04700F6	Dilation of Abdominal Aorta, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04700FZ	Dilation of Abdominal Aorta with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04700G6	Dilation of Abdominal Aorta, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04700GZ	Dilation of Abdominal Aorta with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04700Z1	Dilation of Abdominal Aorta using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04700Z6	Dilation of Abdominal Aorta, Bifurcation, Open Approach	PX	ICD-10-PCS
04700ZZ	Dilation of Abdominal Aorta, Open Approach	PX	ICD-10-PCS
0470341	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
0470346	Dilation of Abdominal Aorta, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047034Z	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0470356	Dilation of Abdominal Aorta, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047035Z	Dilation of Abdominal Aorta with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0470366	Dilation of Abdominal Aorta, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047036Z	Dilation of Abdominal Aorta with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0470376	Dilation of Abdominal Aorta, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047037Z	Dilation of Abdominal Aorta with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04703D1	Dilation of Abdominal Aorta with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04703D6	Dilation of Abdominal Aorta, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04703DZ	Dilation of Abdominal Aorta with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04703E6	Dilation of Abdominal Aorta, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04703EZ	Dilation of Abdominal Aorta with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04703F6	Dilation of Abdominal Aorta, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04703FZ	Dilation of Abdominal Aorta with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04703G6	Dilation of Abdominal Aorta, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04703GZ	Dilation of Abdominal Aorta with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04703Z1	Dilation of Abdominal Aorta using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04703Z6	Dilation of Abdominal Aorta, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04703ZZ	Dilation of Abdominal Aorta, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0470441	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0470446	Dilation of Abdominal Aorta, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047044Z	Dilation of Abdominal Aorta with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0470456	Dilation of Abdominal Aorta, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047045Z	Dilation of Abdominal Aorta with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0470466	Dilation of Abdominal Aorta, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047046Z	Dilation of Abdominal Aorta with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0470476	Dilation of Abdominal Aorta, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047047Z	Dilation of Abdominal Aorta with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704D1	Dilation of Abdominal Aorta with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704D6	Dilation of Abdominal Aorta, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704DZ	Dilation of Abdominal Aorta with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704E6	Dilation of Abdominal Aorta, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704EZ	Dilation of Abdominal Aorta with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704F6	Dilation of Abdominal Aorta, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704FZ	Dilation of Abdominal Aorta with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704G6	Dilation of Abdominal Aorta, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704GZ	Dilation of Abdominal Aorta with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704Z1	Dilation of Abdominal Aorta using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704Z6	Dilation of Abdominal Aorta, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04704ZZ	Dilation of Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0471041	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
0471046	Dilation of Celiac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047104Z	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0471056	Dilation of Celiac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047105Z	Dilation of Celiac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0471066	Dilation of Celiac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047106Z	Dilation of Celiac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0471076	Dilation of Celiac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047107Z	Dilation of Celiac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04710D1	Dilation of Celiac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04710D6	Dilation of Celiac Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04710DZ	Dilation of Celiac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04710E6	Dilation of Celiac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04710EZ	Dilation of Celiac Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04710F6	Dilation of Celiac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04710FZ	Dilation of Celiac Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04710G6	Dilation of Celiac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04710GZ	Dilation of Celiac Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04710Z1	Dilation of Celiac Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04710Z6	Dilation of Celiac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04710ZZ	Dilation of Celiac Artery, Open Approach	PX	ICD-10-PCS
0471341	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
0471346	Dilation of Celiac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047134Z	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0471356	Dilation of Celiac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047135Z	Dilation of Celiac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0471366	Dilation of Celiac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047136Z	Dilation of Celiac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0471376	Dilation of Celiac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047137Z	Dilation of Celiac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04713D1	Dilation of Celiac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04713D6	Dilation of Celiac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04713DZ	Dilation of Celiac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04713E6	Dilation of Celiac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04713EZ	Dilation of Celiac Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04713F6	Dilation of Celiac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04713FZ	Dilation of Celiac Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04713G6	Dilation of Celiac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04713GZ	Dilation of Celiac Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04713Z1	Dilation of Celiac Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04713Z6	Dilation of Celiac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04713ZZ	Dilation of Celiac Artery, Percutaneous Approach	PX	ICD-10-PCS
0471441	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0471446	Dilation of Celiac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047144Z	Dilation of Celiac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0471456	Dilation of Celiac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047145Z	Dilation of Celiac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0471466	Dilation of Celiac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047146Z	Dilation of Celiac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0471476	Dilation of Celiac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047147Z	Dilation of Celiac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714D1	Dilation of Celiac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714D6	Dilation of Celiac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714DZ	Dilation of Celiac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04714E6	Dilation of Celiac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714EZ	Dilation of Celiac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714F6	Dilation of Celiac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714FZ	Dilation of Celiac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714G6	Dilation of Celiac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714GZ	Dilation of Celiac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714Z1	Dilation of Celiac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714Z6	Dilation of Celiac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04714ZZ	Dilation of Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0472041	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
0472046	Dilation of Gastric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047204Z	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0472056	Dilation of Gastric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047205Z	Dilation of Gastric Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0472066	Dilation of Gastric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047206Z	Dilation of Gastric Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0472076	Dilation of Gastric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047207Z	Dilation of Gastric Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04720D1	Dilation of Gastric Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04720D6	Dilation of Gastric Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04720DZ	Dilation of Gastric Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04720E6	Dilation of Gastric Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04720EZ	Dilation of Gastric Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04720F6	Dilation of Gastric Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04720FZ	Dilation of Gastric Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04720G6	Dilation of Gastric Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04720GZ	Dilation of Gastric Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04720Z1	Dilation of Gastric Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04720Z6	Dilation of Gastric Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04720ZZ	Dilation of Gastric Artery, Open Approach	PX	ICD-10-PCS
0472341	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
0472346	Dilation of Gastric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047234Z	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0472356	Dilation of Gastric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047235Z	Dilation of Gastric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0472366	Dilation of Gastric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047236Z	Dilation of Gastric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0472376	Dilation of Gastric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047237Z	Dilation of Gastric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04723D1	Dilation of Gastric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04723D6	Dilation of Gastric Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04723DZ	Dilation of Gastric Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04723E6	Dilation of Gastric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04723EZ	Dilation of Gastric Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04723F6	Dilation of Gastric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04723FZ	Dilation of Gastric Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04723G6	Dilation of Gastric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04723GZ	Dilation of Gastric Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04723Z1	Dilation of Gastric Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04723Z6	Dilation of Gastric Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04723ZZ	Dilation of Gastric Artery, Percutaneous Approach	PX	ICD-10-PCS
0472441	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0472446	Dilation of Gastric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047244Z	Dilation of Gastric Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0472456	Dilation of Gastric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047245Z	Dilation of Gastric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0472466	Dilation of Gastric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047246Z	Dilation of Gastric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0472476	Dilation of Gastric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047247Z	Dilation of Gastric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724D1	Dilation of Gastric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724D6	Dilation of Gastric Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724DZ	Dilation of Gastric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724E6	Dilation of Gastric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724EZ	Dilation of Gastric Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724F6	Dilation of Gastric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724FZ	Dilation of Gastric Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724G6	Dilation of Gastric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724GZ	Dilation of Gastric Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724Z1	Dilation of Gastric Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724Z6	Dilation of Gastric Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04724ZZ	Dilation of Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0473041	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
0473046	Dilation of Hepatic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047304Z	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0473056	Dilation of Hepatic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047305Z	Dilation of Hepatic Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0473066	Dilation of Hepatic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047306Z	Dilation of Hepatic Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0473076	Dilation of Hepatic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047307Z	Dilation of Hepatic Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04730D1	Dilation of Hepatic Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04730D6	Dilation of Hepatic Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04730DZ	Dilation of Hepatic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04730E6	Dilation of Hepatic Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04730EZ	Dilation of Hepatic Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04730F6	Dilation of Hepatic Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04730FZ	Dilation of Hepatic Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04730G6	Dilation of Hepatic Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04730GZ	Dilation of Hepatic Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04730Z1	Dilation of Hepatic Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04730Z6	Dilation of Hepatic Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04730ZZ	Dilation of Hepatic Artery, Open Approach	PX	ICD-10-PCS
0473341	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
0473346	Dilation of Hepatic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047334Z	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0473356	Dilation of Hepatic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047335Z	Dilation of Hepatic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0473366	Dilation of Hepatic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047336Z	Dilation of Hepatic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0473376	Dilation of Hepatic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047337Z	Dilation of Hepatic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04733D1	Dilation of Hepatic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04733D6	Dilation of Hepatic Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04733DZ	Dilation of Hepatic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04733E6	Dilation of Hepatic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04733EZ	Dilation of Hepatic Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04733F6	Dilation of Hepatic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04733FZ	Dilation of Hepatic Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04733G6	Dilation of Hepatic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04733GZ	Dilation of Hepatic Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04733Z1	Dilation of Hepatic Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04733Z6	Dilation of Hepatic Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04733ZZ	Dilation of Hepatic Artery, Percutaneous Approach	PX	ICD-10-PCS
0473441	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0473446	Dilation of Hepatic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047344Z	Dilation of Hepatic Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0473456	Dilation of Hepatic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047345Z	Dilation of Hepatic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0473466	Dilation of Hepatic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047346Z	Dilation of Hepatic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0473476	Dilation of Hepatic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047347Z	Dilation of Hepatic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734D1	Dilation of Hepatic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734D6	Dilation of Hepatic Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734DZ	Dilation of Hepatic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04734E6	Dilation of Hepatic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734EZ	Dilation of Hepatic Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734F6	Dilation of Hepatic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734FZ	Dilation of Hepatic Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734G6	Dilation of Hepatic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734GZ	Dilation of Hepatic Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734Z1	Dilation of Hepatic Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734Z6	Dilation of Hepatic Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04734ZZ	Dilation of Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0474041	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
0474046	Dilation of Splenic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047404Z	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0474056	Dilation of Splenic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047405Z	Dilation of Splenic Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0474066	Dilation of Splenic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047406Z	Dilation of Splenic Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0474076	Dilation of Splenic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047407Z	Dilation of Splenic Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04740D1	Dilation of Splenic Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04740D6	Dilation of Splenic Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04740DZ	Dilation of Splenic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04740E6	Dilation of Splenic Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04740EZ	Dilation of Splenic Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04740F6	Dilation of Splenic Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04740FZ	Dilation of Splenic Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04740G6	Dilation of Splenic Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04740GZ	Dilation of Splenic Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04740Z1	Dilation of Splenic Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04740Z6	Dilation of Splenic Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04740ZZ	Dilation of Splenic Artery, Open Approach	PX	ICD-10-PCS
0474341	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
0474346	Dilation of Splenic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047434Z	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0474356	Dilation of Splenic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047435Z	Dilation of Splenic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0474366	Dilation of Splenic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047436Z	Dilation of Splenic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0474376	Dilation of Splenic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047437Z	Dilation of Splenic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04743D1	Dilation of Splenic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04743D6	Dilation of Splenic Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04743DZ	Dilation of Splenic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04743E6	Dilation of Splenic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04743EZ	Dilation of Splenic Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04743F6	Dilation of Splenic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04743FZ	Dilation of Splenic Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04743G6	Dilation of Splenic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04743GZ	Dilation of Splenic Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04743Z1	Dilation of Splenic Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04743Z6	Dilation of Splenic Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04743ZZ	Dilation of Splenic Artery, Percutaneous Approach	PX	ICD-10-PCS
0474441	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0474446	Dilation of Splenic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047444Z	Dilation of Splenic Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0474456	Dilation of Splenic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047445Z	Dilation of Splenic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0474466	Dilation of Splenic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047446Z	Dilation of Splenic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0474476	Dilation of Splenic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047447Z	Dilation of Splenic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744D1	Dilation of Splenic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744D6	Dilation of Splenic Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744DZ	Dilation of Splenic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744E6	Dilation of Splenic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744EZ	Dilation of Splenic Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744F6	Dilation of Splenic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744FZ	Dilation of Splenic Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744G6	Dilation of Splenic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744GZ	Dilation of Splenic Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744Z1	Dilation of Splenic Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744Z6	Dilation of Splenic Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04744ZZ	Dilation of Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0475041	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
0475046	Dilation of Superior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047504Z	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0475056	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047505Z	Dilation of Superior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0475066	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047506Z	Dilation of Superior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0475076	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047507Z	Dilation of Superior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04750D1	Dilation of Superior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04750D6	Dilation of Superior Mesenteric Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04750DZ	Dilation of Superior Mesenteric Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04750E6	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04750EZ	Dilation of Superior Mesenteric Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04750F6	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04750FZ	Dilation of Superior Mesenteric Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04750G6	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04750GZ	Dilation of Superior Mesenteric Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04750Z1	Dilation of Superior Mesenteric Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04750Z6	Dilation of Superior Mesenteric Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04750ZZ	Dilation of Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
0475341	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
0475346	Dilation of Superior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047534Z	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0475356	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047535Z	Dilation of Superior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0475366	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047536Z	Dilation of Superior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0475376	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047537Z	Dilation of Superior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04753D1	Dilation of Superior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04753D6	Dilation of Superior Mesenteric Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04753DZ	Dilation of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04753E6	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04753EZ	Dilation of Superior Mesenteric Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04753F6	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04753FZ	Dilation of Superior Mesenteric Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04753G6	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04753GZ	Dilation of Superior Mesenteric Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04753Z1	Dilation of Superior Mesenteric Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04753Z6	Dilation of Superior Mesenteric Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04753ZZ	Dilation of Superior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
0475441	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0475446	Dilation of Superior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047544Z	Dilation of Superior Mesenteric Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0475456	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047545Z	Dilation of Superior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0475466	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047546Z	Dilation of Superior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0475476	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047547Z	Dilation of Superior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754D1	Dilation of Superior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754D6	Dilation of Superior Mesenteric Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754DZ	Dilation of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754E6	Dilation of Superior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754EZ	Dilation of Superior Mesenteric Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754F6	Dilation of Superior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754FZ	Dilation of Superior Mesenteric Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754G6	Dilation of Superior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754GZ	Dilation of Superior Mesenteric Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754Z1	Dilation of Superior Mesenteric Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754Z6	Dilation of Superior Mesenteric Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04754ZZ	Dilation of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0476041	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
0476046	Dilation of Right Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047604Z	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0476056	Dilation of Right Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047605Z	Dilation of Right Colic Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0476066	Dilation of Right Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047606Z	Dilation of Right Colic Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0476076	Dilation of Right Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047607Z	Dilation of Right Colic Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04760D1	Dilation of Right Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04760D6	Dilation of Right Colic Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04760DZ	Dilation of Right Colic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04760E6	Dilation of Right Colic Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04760EZ	Dilation of Right Colic Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04760F6	Dilation of Right Colic Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04760FZ	Dilation of Right Colic Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04760G6	Dilation of Right Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04760GZ	Dilation of Right Colic Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04760Z1	Dilation of Right Colic Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04760Z6	Dilation of Right Colic Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04760ZZ	Dilation of Right Colic Artery, Open Approach	PX	ICD-10-PCS
0476341	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
0476346	Dilation of Right Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047634Z	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0476356	Dilation of Right Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047635Z	Dilation of Right Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0476366	Dilation of Right Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047636Z	Dilation of Right Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0476376	Dilation of Right Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047637Z	Dilation of Right Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04763D1	Dilation of Right Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04763D6	Dilation of Right Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04763DZ	Dilation of Right Colic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04763E6	Dilation of Right Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04763EZ	Dilation of Right Colic Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04763F6	Dilation of Right Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04763FZ	Dilation of Right Colic Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04763G6	Dilation of Right Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04763GZ	Dilation of Right Colic Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04763Z1	Dilation of Right Colic Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04763Z6	Dilation of Right Colic Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04763ZZ	Dilation of Right Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
0476441	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0476446	Dilation of Right Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047644Z	Dilation of Right Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0476456	Dilation of Right Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047645Z	Dilation of Right Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0476466	Dilation of Right Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047646Z	Dilation of Right Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0476476	Dilation of Right Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047647Z	Dilation of Right Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764D1	Dilation of Right Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764D6	Dilation of Right Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764DZ	Dilation of Right Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764E6	Dilation of Right Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764EZ	Dilation of Right Colic Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764F6	Dilation of Right Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764FZ	Dilation of Right Colic Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764G6	Dilation of Right Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04764GZ	Dilation of Right Colic Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764Z1	Dilation of Right Colic Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764Z6	Dilation of Right Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04764ZZ	Dilation of Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0477041	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
0477046	Dilation of Left Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047704Z	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0477056	Dilation of Left Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047705Z	Dilation of Left Colic Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0477066	Dilation of Left Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047706Z	Dilation of Left Colic Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0477076	Dilation of Left Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047707Z	Dilation of Left Colic Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04770D1	Dilation of Left Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04770D6	Dilation of Left Colic Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04770DZ	Dilation of Left Colic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04770E6	Dilation of Left Colic Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04770EZ	Dilation of Left Colic Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04770F6	Dilation of Left Colic Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04770FZ	Dilation of Left Colic Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04770G6	Dilation of Left Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04770GZ	Dilation of Left Colic Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04770Z1	Dilation of Left Colic Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04770Z6	Dilation of Left Colic Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04770ZZ	Dilation of Left Colic Artery, Open Approach	PX	ICD-10-PCS
0477341	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0477346	Dilation of Left Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047734Z	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0477356	Dilation of Left Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047735Z	Dilation of Left Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0477366	Dilation of Left Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047736Z	Dilation of Left Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0477376	Dilation of Left Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047737Z	Dilation of Left Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04773D1	Dilation of Left Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04773D6	Dilation of Left Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04773DZ	Dilation of Left Colic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04773E6	Dilation of Left Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04773EZ	Dilation of Left Colic Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04773F6	Dilation of Left Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04773FZ	Dilation of Left Colic Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04773G6	Dilation of Left Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04773GZ	Dilation of Left Colic Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04773Z1	Dilation of Left Colic Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04773Z6	Dilation of Left Colic Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04773ZZ	Dilation of Left Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
0477441	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0477446	Dilation of Left Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047744Z	Dilation of Left Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0477456	Dilation of Left Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047745Z	Dilation of Left Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0477466	Dilation of Left Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047746Z	Dilation of Left Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0477476	Dilation of Left Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047747Z	Dilation of Left Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774D1	Dilation of Left Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774D6	Dilation of Left Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774DZ	Dilation of Left Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774E6	Dilation of Left Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774EZ	Dilation of Left Colic Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774F6	Dilation of Left Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774FZ	Dilation of Left Colic Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774G6	Dilation of Left Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774GZ	Dilation of Left Colic Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774Z1	Dilation of Left Colic Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774Z6	Dilation of Left Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04774ZZ	Dilation of Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0478041	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
0478046	Dilation of Middle Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047804Z	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0478056	Dilation of Middle Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047805Z	Dilation of Middle Colic Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0478066	Dilation of Middle Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047806Z	Dilation of Middle Colic Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0478076	Dilation of Middle Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047807Z	Dilation of Middle Colic Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04780D1	Dilation of Middle Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04780D6	Dilation of Middle Colic Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04780DZ	Dilation of Middle Colic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04780E6	Dilation of Middle Colic Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04780EZ	Dilation of Middle Colic Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04780F6	Dilation of Middle Colic Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04780FZ	Dilation of Middle Colic Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04780G6	Dilation of Middle Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04780GZ	Dilation of Middle Colic Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04780Z1	Dilation of Middle Colic Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04780Z6	Dilation of Middle Colic Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04780ZZ	Dilation of Middle Colic Artery, Open Approach	PX	ICD-10-PCS
0478341	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
0478346	Dilation of Middle Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047834Z	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0478356	Dilation of Middle Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047835Z	Dilation of Middle Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0478366	Dilation of Middle Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047836Z	Dilation of Middle Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0478376	Dilation of Middle Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047837Z	Dilation of Middle Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04783D1	Dilation of Middle Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04783D6	Dilation of Middle Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04783DZ	Dilation of Middle Colic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04783E6	Dilation of Middle Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04783EZ	Dilation of Middle Colic Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04783F6	Dilation of Middle Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04783FZ	Dilation of Middle Colic Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04783G6	Dilation of Middle Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04783GZ	Dilation of Middle Colic Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04783Z1	Dilation of Middle Colic Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04783Z6	Dilation of Middle Colic Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04783ZZ	Dilation of Middle Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
0478441	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0478446	Dilation of Middle Colic Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047844Z	Dilation of Middle Colic Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0478456	Dilation of Middle Colic Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047845Z	Dilation of Middle Colic Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0478466	Dilation of Middle Colic Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047846Z	Dilation of Middle Colic Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0478476	Dilation of Middle Colic Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047847Z	Dilation of Middle Colic Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784D1	Dilation of Middle Colic Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784D6	Dilation of Middle Colic Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784DZ	Dilation of Middle Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04784E6	Dilation of Middle Colic Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784EZ	Dilation of Middle Colic Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784F6	Dilation of Middle Colic Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784FZ	Dilation of Middle Colic Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784G6	Dilation of Middle Colic Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784GZ	Dilation of Middle Colic Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784Z1	Dilation of Middle Colic Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784Z6	Dilation of Middle Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04784ZZ	Dilation of Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0479041	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
0479046	Dilation of Right Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047904Z	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
0479056	Dilation of Right Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047905Z	Dilation of Right Renal Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0479066	Dilation of Right Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047906Z	Dilation of Right Renal Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
0479076	Dilation of Right Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047907Z	Dilation of Right Renal Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04790D1	Dilation of Right Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04790D6	Dilation of Right Renal Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04790DZ	Dilation of Right Renal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04790E6	Dilation of Right Renal Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04790EZ	Dilation of Right Renal Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04790F6	Dilation of Right Renal Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04790FZ	Dilation of Right Renal Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04790G6	Dilation of Right Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04790GZ	Dilation of Right Renal Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
04790Z1	Dilation of Right Renal Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
04790Z6	Dilation of Right Renal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04790ZZ	Dilation of Right Renal Artery, Open Approach	PX	ICD-10-PCS
0479341	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
0479346	Dilation of Right Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047934Z	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0479356	Dilation of Right Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047935Z	Dilation of Right Renal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0479366	Dilation of Right Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047936Z	Dilation of Right Renal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
0479376	Dilation of Right Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047937Z	Dilation of Right Renal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04793D1	Dilation of Right Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04793D6	Dilation of Right Renal Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04793DZ	Dilation of Right Renal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04793E6	Dilation of Right Renal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04793EZ	Dilation of Right Renal Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04793F6	Dilation of Right Renal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04793FZ	Dilation of Right Renal Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04793G6	Dilation of Right Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04793GZ	Dilation of Right Renal Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
04793Z1	Dilation of Right Renal Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
04793Z6	Dilation of Right Renal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04793ZZ	Dilation of Right Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
0479441	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0479446	Dilation of Right Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047944Z	Dilation of Right Renal Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0479456	Dilation of Right Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047945Z	Dilation of Right Renal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0479466	Dilation of Right Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047946Z	Dilation of Right Renal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0479476	Dilation of Right Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047947Z	Dilation of Right Renal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794D1	Dilation of Right Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794D6	Dilation of Right Renal Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794DZ	Dilation of Right Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794E6	Dilation of Right Renal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794EZ	Dilation of Right Renal Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794F6	Dilation of Right Renal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794FZ	Dilation of Right Renal Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794G6	Dilation of Right Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794GZ	Dilation of Right Renal Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794Z1	Dilation of Right Renal Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794Z6	Dilation of Right Renal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04794ZZ	Dilation of Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A041	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047A046	Dilation of Left Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047A04Z	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047A056	Dilation of Left Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A05Z	Dilation of Left Renal Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A066	Dilation of Left Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A06Z	Dilation of Left Renal Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A076	Dilation of Left Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A07Z	Dilation of Left Renal Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A0D1	Dilation of Left Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047A0D6	Dilation of Left Renal Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047A0DZ	Dilation of Left Renal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047A0E6	Dilation of Left Renal Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A0EZ	Dilation of Left Renal Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A0F6	Dilation of Left Renal Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A0FZ	Dilation of Left Renal Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A0G6	Dilation of Left Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A0GZ	Dilation of Left Renal Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047A0Z1	Dilation of Left Renal Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047A0Z6	Dilation of Left Renal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047A0ZZ	Dilation of Left Renal Artery, Open Approach	PX	ICD-10-PCS
047A341	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047A346	Dilation of Left Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047A34Z	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047A356	Dilation of Left Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A35Z	Dilation of Left Renal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A366	Dilation of Left Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047A36Z	Dilation of Left Renal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A376	Dilation of Left Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A37Z	Dilation of Left Renal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A3D1	Dilation of Left Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047A3D6	Dilation of Left Renal Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047A3DZ	Dilation of Left Renal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047A3E6	Dilation of Left Renal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A3EZ	Dilation of Left Renal Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A3F6	Dilation of Left Renal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A3FZ	Dilation of Left Renal Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A3G6	Dilation of Left Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A3GZ	Dilation of Left Renal Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047A3Z1	Dilation of Left Renal Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047A3Z6	Dilation of Left Renal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047A3ZZ	Dilation of Left Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
047A441	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A446	Dilation of Left Renal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A44Z	Dilation of Left Renal Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A456	Dilation of Left Renal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A45Z	Dilation of Left Renal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A466	Dilation of Left Renal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A46Z	Dilation of Left Renal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A476	Dilation of Left Renal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A47Z	Dilation of Left Renal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047A4D1	Dilation of Left Renal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4D6	Dilation of Left Renal Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4DZ	Dilation of Left Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4E6	Dilation of Left Renal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4EZ	Dilation of Left Renal Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4F6	Dilation of Left Renal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4FZ	Dilation of Left Renal Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4G6	Dilation of Left Renal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4GZ	Dilation of Left Renal Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4Z1	Dilation of Left Renal Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4Z6	Dilation of Left Renal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047A4ZZ	Dilation of Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B041	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047B046	Dilation of Inferior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047B04Z	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047B056	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B05Z	Dilation of Inferior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B066	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B06Z	Dilation of Inferior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B076	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B07Z	Dilation of Inferior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B0D1	Dilation of Inferior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047B0D6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047B0DZ	Dilation of Inferior Mesenteric Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047B0E6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B0EZ	Dilation of Inferior Mesenteric Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B0F6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B0FZ	Dilation of Inferior Mesenteric Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B0G6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B0GZ	Dilation of Inferior Mesenteric Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047B0Z1	Dilation of Inferior Mesenteric Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047B0Z6	Dilation of Inferior Mesenteric Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047B0ZZ	Dilation of Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
047B341	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047B346	Dilation of Inferior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047B34Z	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047B356	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B35Z	Dilation of Inferior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B366	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B36Z	Dilation of Inferior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B376	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B37Z	Dilation of Inferior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B3D1	Dilation of Inferior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047B3D6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047B3DZ	Dilation of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047B3E6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B3EZ	Dilation of Inferior Mesenteric Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047B3F6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B3FZ	Dilation of Inferior Mesenteric Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B3G6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B3GZ	Dilation of Inferior Mesenteric Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047B3Z1	Dilation of Inferior Mesenteric Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047B3Z6	Dilation of Inferior Mesenteric Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047B3ZZ	Dilation of Inferior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
047B441	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B446	Dilation of Inferior Mesenteric Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B44Z	Dilation of Inferior Mesenteric Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B456	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B45Z	Dilation of Inferior Mesenteric Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B466	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B46Z	Dilation of Inferior Mesenteric Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B476	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B47Z	Dilation of Inferior Mesenteric Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4D1	Dilation of Inferior Mesenteric Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4D6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4DZ	Dilation of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4E6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4EZ	Dilation of Inferior Mesenteric Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4F6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4FZ	Dilation of Inferior Mesenteric Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047B4G6	Dilation of Inferior Mesenteric Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4GZ	Dilation of Inferior Mesenteric Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4Z1	Dilation of Inferior Mesenteric Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4Z6	Dilation of Inferior Mesenteric Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047B4ZZ	Dilation of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C041	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047C046	Dilation of Right Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047C04Z	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047C056	Dilation of Right Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C05Z	Dilation of Right Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C066	Dilation of Right Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C06Z	Dilation of Right Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C076	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C07Z	Dilation of Right Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C0D1	Dilation of Right Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047C0D6	Dilation of Right Common Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047C0DZ	Dilation of Right Common Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047C0E6	Dilation of Right Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C0EZ	Dilation of Right Common Iliac Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C0F6	Dilation of Right Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C0FZ	Dilation of Right Common Iliac Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C0G6	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047C0GZ	Dilation of Right Common Iliac Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047C0Z1	Dilation of Right Common Iliac Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047C0Z6	Dilation of Right Common Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047C0ZZ	Dilation of Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
047C341	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047C346	Dilation of Right Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047C34Z	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047C356	Dilation of Right Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C35Z	Dilation of Right Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C366	Dilation of Right Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C36Z	Dilation of Right Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C376	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C37Z	Dilation of Right Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C3D1	Dilation of Right Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047C3D6	Dilation of Right Common Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047C3DZ	Dilation of Right Common Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047C3E6	Dilation of Right Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C3EZ	Dilation of Right Common Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C3F6	Dilation of Right Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C3FZ	Dilation of Right Common Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C3G6	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C3GZ	Dilation of Right Common Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047C3Z1	Dilation of Right Common Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047C3Z6	Dilation of Right Common Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047C3ZZ	Dilation of Right Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047C441	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C446	Dilation of Right Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C44Z	Dilation of Right Common Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C456	Dilation of Right Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C45Z	Dilation of Right Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C466	Dilation of Right Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C46Z	Dilation of Right Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C476	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C47Z	Dilation of Right Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4D1	Dilation of Right Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4D6	Dilation of Right Common Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4DZ	Dilation of Right Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4E6	Dilation of Right Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4EZ	Dilation of Right Common Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4F6	Dilation of Right Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4FZ	Dilation of Right Common Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4G6	Dilation of Right Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4GZ	Dilation of Right Common Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4Z1	Dilation of Right Common Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4Z6	Dilation of Right Common Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047C4ZZ	Dilation of Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D041	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047D046	Dilation of Left Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047D04Z	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047D056	Dilation of Left Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D05Z	Dilation of Left Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D066	Dilation of Left Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D06Z	Dilation of Left Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D076	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D07Z	Dilation of Left Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D0D1	Dilation of Left Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047D0D6	Dilation of Left Common Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047D0DZ	Dilation of Left Common Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047D0E6	Dilation of Left Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D0EZ	Dilation of Left Common Iliac Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D0F6	Dilation of Left Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D0FZ	Dilation of Left Common Iliac Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D0G6	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D0GZ	Dilation of Left Common Iliac Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047D0Z1	Dilation of Left Common Iliac Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047D0Z6	Dilation of Left Common Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047D0ZZ	Dilation of Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
047D341	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047D346	Dilation of Left Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047D34Z	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047D356	Dilation of Left Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D35Z	Dilation of Left Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047D366	Dilation of Left Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D36Z	Dilation of Left Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D376	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D37Z	Dilation of Left Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D3D1	Dilation of Left Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047D3D6	Dilation of Left Common Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047D3DZ	Dilation of Left Common Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047D3E6	Dilation of Left Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D3EZ	Dilation of Left Common Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D3F6	Dilation of Left Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D3FZ	Dilation of Left Common Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D3G6	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D3GZ	Dilation of Left Common Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047D3Z1	Dilation of Left Common Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047D3Z6	Dilation of Left Common Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047D3ZZ	Dilation of Left Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
047D441	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D446	Dilation of Left Common Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D44Z	Dilation of Left Common Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D456	Dilation of Left Common Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D45Z	Dilation of Left Common Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D466	Dilation of Left Common Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D46Z	Dilation of Left Common Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047D476	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D47Z	Dilation of Left Common Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4D1	Dilation of Left Common Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4D6	Dilation of Left Common Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4DZ	Dilation of Left Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4E6	Dilation of Left Common Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4EZ	Dilation of Left Common Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4F6	Dilation of Left Common Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4FZ	Dilation of Left Common Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4G6	Dilation of Left Common Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4GZ	Dilation of Left Common Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4Z1	Dilation of Left Common Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4Z6	Dilation of Left Common Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047D4ZZ	Dilation of Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E041	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047E046	Dilation of Right Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047E04Z	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047E056	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E05Z	Dilation of Right Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E066	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E06Z	Dilation of Right Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E076	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E07Z	Dilation of Right Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047E0D1	Dilation of Right Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047E0D6	Dilation of Right Internal Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047E0DZ	Dilation of Right Internal Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047E0E6	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E0EZ	Dilation of Right Internal Iliac Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E0F6	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E0FZ	Dilation of Right Internal Iliac Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E0G6	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E0GZ	Dilation of Right Internal Iliac Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047E0Z1	Dilation of Right Internal Iliac Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047E0Z6	Dilation of Right Internal Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047E0ZZ	Dilation of Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
047E341	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047E346	Dilation of Right Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047E34Z	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047E356	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E35Z	Dilation of Right Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E366	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E36Z	Dilation of Right Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E376	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E37Z	Dilation of Right Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E3D1	Dilation of Right Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047E3D6	Dilation of Right Internal Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047E3DZ	Dilation of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047E3E6	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E3EZ	Dilation of Right Internal Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E3F6	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E3FZ	Dilation of Right Internal Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E3G6	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E3GZ	Dilation of Right Internal Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047E3Z1	Dilation of Right Internal Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047E3Z6	Dilation of Right Internal Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047E3ZZ	Dilation of Right Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
047E441	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E446	Dilation of Right Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E44Z	Dilation of Right Internal Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E456	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E45Z	Dilation of Right Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E466	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E46Z	Dilation of Right Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E476	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E47Z	Dilation of Right Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4D1	Dilation of Right Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4D6	Dilation of Right Internal Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4DZ	Dilation of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4E6	Dilation of Right Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4EZ	Dilation of Right Internal Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047E4F6	Dilation of Right Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4FZ	Dilation of Right Internal Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4G6	Dilation of Right Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4GZ	Dilation of Right Internal Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4Z1	Dilation of Right Internal Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4Z6	Dilation of Right Internal Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047E4ZZ	Dilation of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F041	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047F046	Dilation of Left Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047F04Z	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047F056	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F05Z	Dilation of Left Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F066	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F06Z	Dilation of Left Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F076	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F07Z	Dilation of Left Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F0D1	Dilation of Left Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047F0D6	Dilation of Left Internal Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047F0DZ	Dilation of Left Internal Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047F0E6	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F0EZ	Dilation of Left Internal Iliac Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F0F6	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F0FZ	Dilation of Left Internal Iliac Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047F0G6	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F0GZ	Dilation of Left Internal Iliac Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047F0Z1	Dilation of Left Internal Iliac Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047F0Z6	Dilation of Left Internal Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047F0ZZ	Dilation of Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
047F341	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047F346	Dilation of Left Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047F34Z	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047F356	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F35Z	Dilation of Left Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F366	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F36Z	Dilation of Left Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F376	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F37Z	Dilation of Left Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F3D1	Dilation of Left Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047F3D6	Dilation of Left Internal Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047F3DZ	Dilation of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047F3E6	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F3EZ	Dilation of Left Internal Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F3F6	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F3FZ	Dilation of Left Internal Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F3G6	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F3GZ	Dilation of Left Internal Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047F3Z1	Dilation of Left Internal Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047F3Z6	Dilation of Left Internal Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047F3ZZ	Dilation of Left Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
047F441	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F446	Dilation of Left Internal Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F44Z	Dilation of Left Internal Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F456	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F45Z	Dilation of Left Internal Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F466	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F46Z	Dilation of Left Internal Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F476	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F47Z	Dilation of Left Internal Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4D1	Dilation of Left Internal Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4D6	Dilation of Left Internal Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4DZ	Dilation of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4E6	Dilation of Left Internal Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4EZ	Dilation of Left Internal Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4F6	Dilation of Left Internal Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4FZ	Dilation of Left Internal Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4G6	Dilation of Left Internal Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4GZ	Dilation of Left Internal Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4Z1	Dilation of Left Internal Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4Z6	Dilation of Left Internal Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047F4ZZ	Dilation of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H041	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047H046	Dilation of Right External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047H04Z	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047H056	Dilation of Right External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H05Z	Dilation of Right External Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H066	Dilation of Right External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H06Z	Dilation of Right External Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H076	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H07Z	Dilation of Right External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H0D1	Dilation of Right External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047H0D6	Dilation of Right External Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047H0DZ	Dilation of Right External Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047H0E6	Dilation of Right External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H0EZ	Dilation of Right External Iliac Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H0F6	Dilation of Right External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H0FZ	Dilation of Right External Iliac Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H0G6	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H0GZ	Dilation of Right External Iliac Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047H0Z1	Dilation of Right External Iliac Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047H0Z6	Dilation of Right External Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047H0ZZ	Dilation of Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
047H341	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047H346	Dilation of Right External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047H34Z	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047H356	Dilation of Right External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047H35Z	Dilation of Right External Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H366	Dilation of Right External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H36Z	Dilation of Right External Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H376	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H37Z	Dilation of Right External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H3D1	Dilation of Right External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047H3D6	Dilation of Right External Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047H3DZ	Dilation of Right External Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047H3E6	Dilation of Right External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H3EZ	Dilation of Right External Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H3F6	Dilation of Right External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H3FZ	Dilation of Right External Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H3G6	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H3GZ	Dilation of Right External Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047H3Z1	Dilation of Right External Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047H3Z6	Dilation of Right External Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047H3ZZ	Dilation of Right External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
047H441	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H446	Dilation of Right External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H44Z	Dilation of Right External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H456	Dilation of Right External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H45Z	Dilation of Right External Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H466	Dilation of Right External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047H46Z	Dilation of Right External Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H476	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H47Z	Dilation of Right External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4D1	Dilation of Right External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4D6	Dilation of Right External Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4DZ	Dilation of Right External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4E6	Dilation of Right External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4EZ	Dilation of Right External Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4F6	Dilation of Right External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4FZ	Dilation of Right External Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4G6	Dilation of Right External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4GZ	Dilation of Right External Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4Z1	Dilation of Right External Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4Z6	Dilation of Right External Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047H4ZZ	Dilation of Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J041	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047J046	Dilation of Left External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047J04Z	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047J056	Dilation of Left External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J05Z	Dilation of Left External Iliac Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J066	Dilation of Left External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J06Z	Dilation of Left External Iliac Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J076	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047J07Z	Dilation of Left External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J0D1	Dilation of Left External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047J0D6	Dilation of Left External Iliac Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047J0DZ	Dilation of Left External Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047J0E6	Dilation of Left External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J0EZ	Dilation of Left External Iliac Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J0F6	Dilation of Left External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J0FZ	Dilation of Left External Iliac Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J0G6	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J0GZ	Dilation of Left External Iliac Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047J0Z1	Dilation of Left External Iliac Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047J0Z6	Dilation of Left External Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047J0ZZ	Dilation of Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
047J341	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047J346	Dilation of Left External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047J34Z	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047J356	Dilation of Left External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J35Z	Dilation of Left External Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J366	Dilation of Left External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J36Z	Dilation of Left External Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J376	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J37Z	Dilation of Left External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J3D1	Dilation of Left External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047J3D6	Dilation of Left External Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047J3DZ	Dilation of Left External Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047J3E6	Dilation of Left External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J3EZ	Dilation of Left External Iliac Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J3F6	Dilation of Left External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J3FZ	Dilation of Left External Iliac Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J3G6	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J3GZ	Dilation of Left External Iliac Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047J3Z1	Dilation of Left External Iliac Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047J3Z6	Dilation of Left External Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047J3ZZ	Dilation of Left External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
047J441	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J446	Dilation of Left External Iliac Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J44Z	Dilation of Left External Iliac Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J456	Dilation of Left External Iliac Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J45Z	Dilation of Left External Iliac Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J466	Dilation of Left External Iliac Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J46Z	Dilation of Left External Iliac Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J476	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J47Z	Dilation of Left External Iliac Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4D1	Dilation of Left External Iliac Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4D6	Dilation of Left External Iliac Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4DZ	Dilation of Left External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4E6	Dilation of Left External Iliac Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047J4EZ	Dilation of Left External Iliac Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4F6	Dilation of Left External Iliac Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4FZ	Dilation of Left External Iliac Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4G6	Dilation of Left External Iliac Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4GZ	Dilation of Left External Iliac Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4Z1	Dilation of Left External Iliac Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4Z6	Dilation of Left External Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047J4ZZ	Dilation of Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K041	Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047K046	Dilation of Right Femoral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047K04Z	Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047K056	Dilation of Right Femoral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K05Z	Dilation of Right Femoral Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K066	Dilation of Right Femoral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K06Z	Dilation of Right Femoral Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K076	Dilation of Right Femoral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K07Z	Dilation of Right Femoral Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K0D1	Dilation of Right Femoral Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047K0D6	Dilation of Right Femoral Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047K0DZ	Dilation of Right Femoral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047K0E6	Dilation of Right Femoral Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K0EZ	Dilation of Right Femoral Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K0F6	Dilation of Right Femoral Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K0FZ	Dilation of Right Femoral Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047K0G6	Dilation of Right Femoral Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K0GZ	Dilation of Right Femoral Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047K0Z1	Dilation of Right Femoral Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047K0Z6	Dilation of Right Femoral Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047K0ZZ	Dilation of Right Femoral Artery, Open Approach	PX	ICD-10-PCS
047K341	Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047K342	Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047K346	Dilation of Right Femoral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047K34Z	Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047K352	Dilation of Right Femoral Artery with Two Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047K356	Dilation of Right Femoral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K35Z	Dilation of Right Femoral Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K362	Dilation of Right Femoral Artery with Three Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047K366	Dilation of Right Femoral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K36Z	Dilation of Right Femoral Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K372	Dilation of Right Femoral Artery with Four or More Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047K376	Dilation of Right Femoral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K37Z	Dilation of Right Femoral Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K3D1	Dilation of Right Femoral Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047K3D6	Dilation of Right Femoral Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047K3DZ	Dilation of Right Femoral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047K3E6	Dilation of Right Femoral Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K3EZ	Dilation of Right Femoral Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K3F6	Dilation of Right Femoral Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047K3FZ	Dilation of Right Femoral Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K3G6	Dilation of Right Femoral Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K3GZ	Dilation of Right Femoral Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047K3Z1	Dilation of Right Femoral Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047K3Z6	Dilation of Right Femoral Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047K3ZZ	Dilation of Right Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
047K441	Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K446	Dilation of Right Femoral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K44Z	Dilation of Right Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K456	Dilation of Right Femoral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K45Z	Dilation of Right Femoral Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K466	Dilation of Right Femoral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K46Z	Dilation of Right Femoral Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K476	Dilation of Right Femoral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K47Z	Dilation of Right Femoral Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4D1	Dilation of Right Femoral Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4D6	Dilation of Right Femoral Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4DZ	Dilation of Right Femoral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4E6	Dilation of Right Femoral Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4EZ	Dilation of Right Femoral Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4F6	Dilation of Right Femoral Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4FZ	Dilation of Right Femoral Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4G6	Dilation of Right Femoral Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047K4GZ	Dilation of Right Femoral Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4Z1	Dilation of Right Femoral Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4Z6	Dilation of Right Femoral Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047K4ZZ	Dilation of Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L041	Dilation of Left Femoral Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047L046	Dilation of Left Femoral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047L04Z	Dilation of Left Femoral Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047L056	Dilation of Left Femoral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L05Z	Dilation of Left Femoral Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L066	Dilation of Left Femoral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L06Z	Dilation of Left Femoral Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L076	Dilation of Left Femoral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L07Z	Dilation of Left Femoral Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L0D1	Dilation of Left Femoral Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047L0D6	Dilation of Left Femoral Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047L0DZ	Dilation of Left Femoral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047L0E6	Dilation of Left Femoral Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L0EZ	Dilation of Left Femoral Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L0F6	Dilation of Left Femoral Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L0FZ	Dilation of Left Femoral Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L0G6	Dilation of Left Femoral Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L0GZ	Dilation of Left Femoral Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047L0Z1	Dilation of Left Femoral Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047L0Z6	Dilation of Left Femoral Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047L0ZZ	Dilation of Left Femoral Artery, Open Approach	PX	ICD-10-PCS
047L341	Dilation of Left Femoral Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047L342	Dilation of Left Femoral Artery with Drug-eluting Intraluminal Device, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047L346	Dilation of Left Femoral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047L34Z	Dilation of Left Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047L352	Dilation of Left Femoral Artery with Two Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047L356	Dilation of Left Femoral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L35Z	Dilation of Left Femoral Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L362	Dilation of Left Femoral Artery with Three Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047L366	Dilation of Left Femoral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L36Z	Dilation of Left Femoral Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L372	Dilation of Left Femoral Artery with Four or More Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047L376	Dilation of Left Femoral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L37Z	Dilation of Left Femoral Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L3D1	Dilation of Left Femoral Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047L3D6	Dilation of Left Femoral Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047L3DZ	Dilation of Left Femoral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047L3E6	Dilation of Left Femoral Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L3EZ	Dilation of Left Femoral Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L3F6	Dilation of Left Femoral Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L3FZ	Dilation of Left Femoral Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L3G6	Dilation of Left Femoral Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L3GZ	Dilation of Left Femoral Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047L3Z1	Dilation of Left Femoral Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047L3Z6	Dilation of Left Femoral Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047L3ZZ	Dilation of Left Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
047L441	Dilation of Left Femoral Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L446	Dilation of Left Femoral Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L44Z	Dilation of Left Femoral Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L456	Dilation of Left Femoral Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L45Z	Dilation of Left Femoral Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L466	Dilation of Left Femoral Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L46Z	Dilation of Left Femoral Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L476	Dilation of Left Femoral Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L47Z	Dilation of Left Femoral Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4D1	Dilation of Left Femoral Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4D6	Dilation of Left Femoral Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4DZ	Dilation of Left Femoral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4E6	Dilation of Left Femoral Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4EZ	Dilation of Left Femoral Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4F6	Dilation of Left Femoral Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4FZ	Dilation of Left Femoral Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4G6	Dilation of Left Femoral Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4GZ	Dilation of Left Femoral Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4Z1	Dilation of Left Femoral Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4Z6	Dilation of Left Femoral Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047L4ZZ	Dilation of Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M041	Dilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047M046	Dilation of Right Popliteal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047M04Z	Dilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047M056	Dilation of Right Popliteal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M05Z	Dilation of Right Popliteal Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M066	Dilation of Right Popliteal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M06Z	Dilation of Right Popliteal Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M076	Dilation of Right Popliteal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M07Z	Dilation of Right Popliteal Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M0D1	Dilation of Right Popliteal Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047M0D6	Dilation of Right Popliteal Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047M0DZ	Dilation of Right Popliteal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047M0E6	Dilation of Right Popliteal Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M0EZ	Dilation of Right Popliteal Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M0F6	Dilation of Right Popliteal Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M0FZ	Dilation of Right Popliteal Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M0G6	Dilation of Right Popliteal Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M0GZ	Dilation of Right Popliteal Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047M0Z1	Dilation of Right Popliteal Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047M0Z6	Dilation of Right Popliteal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047M0ZZ	Dilation of Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
047M341	Dilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047M342	Dilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047M346	Dilation of Right Popliteal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047M34Z	Dilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047M352	Dilation of Right Popliteal Artery with Two Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047M356	Dilation of Right Popliteal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047M35Z	Dilation of Right Popliteal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M362	Dilation of Right Popliteal Artery with Three Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047M366	Dilation of Right Popliteal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M36Z	Dilation of Right Popliteal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M372	Dilation of Right Popliteal Artery with Four or More Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047M376	Dilation of Right Popliteal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M37Z	Dilation of Right Popliteal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M3D1	Dilation of Right Popliteal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047M3D6	Dilation of Right Popliteal Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047M3DZ	Dilation of Right Popliteal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047M3E6	Dilation of Right Popliteal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M3EZ	Dilation of Right Popliteal Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M3F6	Dilation of Right Popliteal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M3FZ	Dilation of Right Popliteal Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M3G6	Dilation of Right Popliteal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M3GZ	Dilation of Right Popliteal Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047M3Z1	Dilation of Right Popliteal Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047M3Z6	Dilation of Right Popliteal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047M3ZZ	Dilation of Right Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
047M441	Dilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M446	Dilation of Right Popliteal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M44Z	Dilation of Right Popliteal Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M456	Dilation of Right Popliteal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047M45Z	Dilation of Right Popliteal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M466	Dilation of Right Popliteal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M46Z	Dilation of Right Popliteal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M476	Dilation of Right Popliteal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M47Z	Dilation of Right Popliteal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4D1	Dilation of Right Popliteal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4D6	Dilation of Right Popliteal Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4DZ	Dilation of Right Popliteal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4E6	Dilation of Right Popliteal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4EZ	Dilation of Right Popliteal Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4F6	Dilation of Right Popliteal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4FZ	Dilation of Right Popliteal Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4G6	Dilation of Right Popliteal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4GZ	Dilation of Right Popliteal Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4Z1	Dilation of Right Popliteal Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4Z6	Dilation of Right Popliteal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047M4ZZ	Dilation of Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N041	Dilation of Left Popliteal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047N046	Dilation of Left Popliteal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047N04Z	Dilation of Left Popliteal Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047N056	Dilation of Left Popliteal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N05Z	Dilation of Left Popliteal Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N066	Dilation of Left Popliteal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047N06Z	Dilation of Left Popliteal Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N076	Dilation of Left Popliteal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N07Z	Dilation of Left Popliteal Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N0D1	Dilation of Left Popliteal Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047N0D6	Dilation of Left Popliteal Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047N0DZ	Dilation of Left Popliteal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047N0E6	Dilation of Left Popliteal Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N0EZ	Dilation of Left Popliteal Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N0F6	Dilation of Left Popliteal Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N0FZ	Dilation of Left Popliteal Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N0G6	Dilation of Left Popliteal Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N0GZ	Dilation of Left Popliteal Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047N0Z1	Dilation of Left Popliteal Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047N0Z6	Dilation of Left Popliteal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047N0ZZ	Dilation of Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
047N341	Dilation of Left Popliteal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047N342	Dilation of Left Popliteal Artery with Drug-eluting Intraluminal Device, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047N346	Dilation of Left Popliteal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047N34Z	Dilation of Left Popliteal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047N352	Dilation of Left Popliteal Artery with Two Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047N356	Dilation of Left Popliteal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N35Z	Dilation of Left Popliteal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N362	Dilation of Left Popliteal Artery with Three Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047N366	Dilation of Left Popliteal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N36Z	Dilation of Left Popliteal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047N372	Dilation of Left Popliteal Artery with Four or More Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047N376	Dilation of Left Popliteal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N37Z	Dilation of Left Popliteal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N3D1	Dilation of Left Popliteal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047N3D6	Dilation of Left Popliteal Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047N3DZ	Dilation of Left Popliteal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047N3E6	Dilation of Left Popliteal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N3EZ	Dilation of Left Popliteal Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N3F6	Dilation of Left Popliteal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N3FZ	Dilation of Left Popliteal Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N3G6	Dilation of Left Popliteal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N3GZ	Dilation of Left Popliteal Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047N3Z1	Dilation of Left Popliteal Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047N3Z6	Dilation of Left Popliteal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047N3ZZ	Dilation of Left Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
047N441	Dilation of Left Popliteal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N446	Dilation of Left Popliteal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N44Z	Dilation of Left Popliteal Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N456	Dilation of Left Popliteal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N45Z	Dilation of Left Popliteal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N466	Dilation of Left Popliteal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N46Z	Dilation of Left Popliteal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N476	Dilation of Left Popliteal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047N47Z	Dilation of Left Popliteal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4D1	Dilation of Left Popliteal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4D6	Dilation of Left Popliteal Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4DZ	Dilation of Left Popliteal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4E6	Dilation of Left Popliteal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4EZ	Dilation of Left Popliteal Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4F6	Dilation of Left Popliteal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4FZ	Dilation of Left Popliteal Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4G6	Dilation of Left Popliteal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4GZ	Dilation of Left Popliteal Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4Z1	Dilation of Left Popliteal Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4Z6	Dilation of Left Popliteal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047N4ZZ	Dilation of Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P041	Dilation of Right Anterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047P046	Dilation of Right Anterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047P04Z	Dilation of Right Anterior Tibial Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047P056	Dilation of Right Anterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P05Z	Dilation of Right Anterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P066	Dilation of Right Anterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P06Z	Dilation of Right Anterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P076	Dilation of Right Anterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P07Z	Dilation of Right Anterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P0D1	Dilation of Right Anterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047P0D6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047P0DZ	Dilation of Right Anterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047P0E6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P0EZ	Dilation of Right Anterior Tibial Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P0F6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P0FZ	Dilation of Right Anterior Tibial Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P0G6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P0GZ	Dilation of Right Anterior Tibial Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047P0Z1	Dilation of Right Anterior Tibial Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047P0Z6	Dilation of Right Anterior Tibial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047P0ZZ	Dilation of Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
047P341	Dilation of Right Anterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047P342	Dilation of Right Anterior Tibial Artery with Drug-eluting Intraluminal Device, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047P346	Dilation of Right Anterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047P34Z	Dilation of Right Anterior Tibial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047P352	Dilation of Right Anterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047P356	Dilation of Right Anterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P35Z	Dilation of Right Anterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P362	Dilation of Right Anterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047P366	Dilation of Right Anterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P36Z	Dilation of Right Anterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P372	Dilation of Right Anterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047P376	Dilation of Right Anterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P37Z	Dilation of Right Anterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047P3D1	Dilation of Right Anterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047P3D6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047P3DZ	Dilation of Right Anterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047P3E6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P3EZ	Dilation of Right Anterior Tibial Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P3F6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P3FZ	Dilation of Right Anterior Tibial Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P3G6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P3GZ	Dilation of Right Anterior Tibial Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047P3Z1	Dilation of Right Anterior Tibial Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047P3Z6	Dilation of Right Anterior Tibial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047P3ZZ	Dilation of Right Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
047P441	Dilation of Right Anterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P446	Dilation of Right Anterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P44Z	Dilation of Right Anterior Tibial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P456	Dilation of Right Anterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P45Z	Dilation of Right Anterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P466	Dilation of Right Anterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P46Z	Dilation of Right Anterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P476	Dilation of Right Anterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P47Z	Dilation of Right Anterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4D1	Dilation of Right Anterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4D6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047P4DZ	Dilation of Right Anterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4E6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4EZ	Dilation of Right Anterior Tibial Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4F6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4FZ	Dilation of Right Anterior Tibial Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4G6	Dilation of Right Anterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4GZ	Dilation of Right Anterior Tibial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4Z1	Dilation of Right Anterior Tibial Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4Z6	Dilation of Right Anterior Tibial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047P4ZZ	Dilation of Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q041	Dilation of Left Anterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047Q046	Dilation of Left Anterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047Q04Z	Dilation of Left Anterior Tibial Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047Q056	Dilation of Left Anterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q05Z	Dilation of Left Anterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q066	Dilation of Left Anterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q06Z	Dilation of Left Anterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q076	Dilation of Left Anterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q07Z	Dilation of Left Anterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q0D1	Dilation of Left Anterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047Q0D6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047Q0DZ	Dilation of Left Anterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047Q0E6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047Q0EZ	Dilation of Left Anterior Tibial Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q0F6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q0FZ	Dilation of Left Anterior Tibial Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q0G6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q0GZ	Dilation of Left Anterior Tibial Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Q0Z1	Dilation of Left Anterior Tibial Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047Q0Z6	Dilation of Left Anterior Tibial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047Q0ZZ	Dilation of Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
047Q341	Dilation of Left Anterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047Q342	Dilation of Left Anterior Tibial Artery with Drug-eluting Intraluminal Device, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047Q346	Dilation of Left Anterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047Q34Z	Dilation of Left Anterior Tibial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047Q352	Dilation of Left Anterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047Q356	Dilation of Left Anterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q35Z	Dilation of Left Anterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q362	Dilation of Left Anterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047Q366	Dilation of Left Anterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q36Z	Dilation of Left Anterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q372	Dilation of Left Anterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047Q376	Dilation of Left Anterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q37Z	Dilation of Left Anterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q3D1	Dilation of Left Anterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047Q3D6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
047Q3DZ	Dilation of Left Anterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047Q3E6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q3EZ	Dilation of Left Anterior Tibial Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q3F6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q3FZ	Dilation of Left Anterior Tibial Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q3G6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q3GZ	Dilation of Left Anterior Tibial Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Q3Z1	Dilation of Left Anterior Tibial Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047Q3Z6	Dilation of Left Anterior Tibial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047Q3ZZ	Dilation of Left Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
047Q441	Dilation of Left Anterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q446	Dilation of Left Anterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q44Z	Dilation of Left Anterior Tibial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q456	Dilation of Left Anterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q45Z	Dilation of Left Anterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q466	Dilation of Left Anterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q46Z	Dilation of Left Anterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q476	Dilation of Left Anterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q47Z	Dilation of Left Anterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4D1	Dilation of Left Anterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4D6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4DZ	Dilation of Left Anterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4E6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047Q4EZ	Dilation of Left Anterior Tibial Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4F6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4FZ	Dilation of Left Anterior Tibial Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4G6	Dilation of Left Anterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4GZ	Dilation of Left Anterior Tibial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4Z1	Dilation of Left Anterior Tibial Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4Z6	Dilation of Left Anterior Tibial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Q4ZZ	Dilation of Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R041	Dilation of Right Posterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047R046	Dilation of Right Posterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047R04Z	Dilation of Right Posterior Tibial Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047R056	Dilation of Right Posterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R05Z	Dilation of Right Posterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R066	Dilation of Right Posterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R06Z	Dilation of Right Posterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R076	Dilation of Right Posterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R07Z	Dilation of Right Posterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R0D1	Dilation of Right Posterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047R0D6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047R0DZ	Dilation of Right Posterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047R0E6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R0EZ	Dilation of Right Posterior Tibial Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R0F6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047R0FZ	Dilation of Right Posterior Tibial Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R0G6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R0GZ	Dilation of Right Posterior Tibial Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047R0Z1	Dilation of Right Posterior Tibial Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047R0Z6	Dilation of Right Posterior Tibial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047R0ZZ	Dilation of Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
047R341	Dilation of Right Posterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047R342	Dilation of Right Posterior Tibial Artery with Drug-eluting Intraluminal Device, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047R346	Dilation of Right Posterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047R34Z	Dilation of Right Posterior Tibial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047R352	Dilation of Right Posterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047R356	Dilation of Right Posterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R35Z	Dilation of Right Posterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R362	Dilation of Right Posterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047R366	Dilation of Right Posterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R36Z	Dilation of Right Posterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R372	Dilation of Right Posterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047R376	Dilation of Right Posterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R37Z	Dilation of Right Posterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R3D1	Dilation of Right Posterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047R3D6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047R3DZ	Dilation of Right Posterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047R3E6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047R3EZ	Dilation of Right Posterior Tibial Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R3F6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R3FZ	Dilation of Right Posterior Tibial Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R3G6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R3GZ	Dilation of Right Posterior Tibial Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047R3Z1	Dilation of Right Posterior Tibial Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047R3Z6	Dilation of Right Posterior Tibial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047R3ZZ	Dilation of Right Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
047R441	Dilation of Right Posterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R446	Dilation of Right Posterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R44Z	Dilation of Right Posterior Tibial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R456	Dilation of Right Posterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R45Z	Dilation of Right Posterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R466	Dilation of Right Posterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R46Z	Dilation of Right Posterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R476	Dilation of Right Posterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R47Z	Dilation of Right Posterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4D1	Dilation of Right Posterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4D6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4DZ	Dilation of Right Posterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4E6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4EZ	Dilation of Right Posterior Tibial Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4F6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047R4FZ	Dilation of Right Posterior Tibial Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4G6	Dilation of Right Posterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4GZ	Dilation of Right Posterior Tibial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4Z1	Dilation of Right Posterior Tibial Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4Z6	Dilation of Right Posterior Tibial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047R4ZZ	Dilation of Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S041	Dilation of Left Posterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047S046	Dilation of Left Posterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047S04Z	Dilation of Left Posterior Tibial Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047S056	Dilation of Left Posterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S05Z	Dilation of Left Posterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S066	Dilation of Left Posterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S06Z	Dilation of Left Posterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S076	Dilation of Left Posterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S07Z	Dilation of Left Posterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S0D1	Dilation of Left Posterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047S0D6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047S0DZ	Dilation of Left Posterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047S0E6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S0EZ	Dilation of Left Posterior Tibial Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S0F6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S0FZ	Dilation of Left Posterior Tibial Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S0G6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047S0GZ	Dilation of Left Posterior Tibial Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047S0Z1	Dilation of Left Posterior Tibial Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047S0Z6	Dilation of Left Posterior Tibial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047S0ZZ	Dilation of Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
047S341	Dilation of Left Posterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047S342	Dilation of Left Posterior Tibial Artery with Drug-eluting Intraluminal Device, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047S346	Dilation of Left Posterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047S34Z	Dilation of Left Posterior Tibial Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047S352	Dilation of Left Posterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047S356	Dilation of Left Posterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S35Z	Dilation of Left Posterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S362	Dilation of Left Posterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047S366	Dilation of Left Posterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S36Z	Dilation of Left Posterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S372	Dilation of Left Posterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047S376	Dilation of Left Posterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S37Z	Dilation of Left Posterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S3D1	Dilation of Left Posterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047S3D6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047S3DZ	Dilation of Left Posterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047S3E6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S3EZ	Dilation of Left Posterior Tibial Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S3F6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047S3FZ	Dilation of Left Posterior Tibial Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S3G6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S3GZ	Dilation of Left Posterior Tibial Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047S3Z1	Dilation of Left Posterior Tibial Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047S3Z6	Dilation of Left Posterior Tibial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047S3ZZ	Dilation of Left Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
047S441	Dilation of Left Posterior Tibial Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S446	Dilation of Left Posterior Tibial Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S44Z	Dilation of Left Posterior Tibial Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S456	Dilation of Left Posterior Tibial Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S45Z	Dilation of Left Posterior Tibial Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S466	Dilation of Left Posterior Tibial Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S46Z	Dilation of Left Posterior Tibial Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S476	Dilation of Left Posterior Tibial Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S47Z	Dilation of Left Posterior Tibial Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4D1	Dilation of Left Posterior Tibial Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4D6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4DZ	Dilation of Left Posterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4E6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4EZ	Dilation of Left Posterior Tibial Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4F6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4FZ	Dilation of Left Posterior Tibial Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4G6	Dilation of Left Posterior Tibial Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047S4GZ	Dilation of Left Posterior Tibial Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4Z1	Dilation of Left Posterior Tibial Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4Z6	Dilation of Left Posterior Tibial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047S4ZZ	Dilation of Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T041	Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047T046	Dilation of Right Peroneal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047T04Z	Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047T056	Dilation of Right Peroneal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T05Z	Dilation of Right Peroneal Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T066	Dilation of Right Peroneal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T06Z	Dilation of Right Peroneal Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T076	Dilation of Right Peroneal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T07Z	Dilation of Right Peroneal Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T0D1	Dilation of Right Peroneal Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047T0D6	Dilation of Right Peroneal Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047T0DZ	Dilation of Right Peroneal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047T0E6	Dilation of Right Peroneal Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T0EZ	Dilation of Right Peroneal Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T0F6	Dilation of Right Peroneal Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T0FZ	Dilation of Right Peroneal Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T0G6	Dilation of Right Peroneal Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T0GZ	Dilation of Right Peroneal Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047T0Z1	Dilation of Right Peroneal Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047T0Z6	Dilation of Right Peroneal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047T0ZZ	Dilation of Right Peroneal Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047T341	Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047T342	Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047T346	Dilation of Right Peroneal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047T34Z	Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047T352	Dilation of Right Peroneal Artery with Two Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047T356	Dilation of Right Peroneal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T35Z	Dilation of Right Peroneal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T362	Dilation of Right Peroneal Artery with Three Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047T366	Dilation of Right Peroneal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T36Z	Dilation of Right Peroneal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T372	Dilation of Right Peroneal Artery with Four or More Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047T376	Dilation of Right Peroneal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T37Z	Dilation of Right Peroneal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T3D1	Dilation of Right Peroneal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047T3D6	Dilation of Right Peroneal Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047T3DZ	Dilation of Right Peroneal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047T3E6	Dilation of Right Peroneal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T3EZ	Dilation of Right Peroneal Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T3F6	Dilation of Right Peroneal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T3FZ	Dilation of Right Peroneal Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T3G6	Dilation of Right Peroneal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047T3GZ	Dilation of Right Peroneal Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047T3Z1	Dilation of Right Peroneal Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047T3Z6	Dilation of Right Peroneal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047T3ZZ	Dilation of Right Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
047T441	Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T446	Dilation of Right Peroneal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T44Z	Dilation of Right Peroneal Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T456	Dilation of Right Peroneal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T45Z	Dilation of Right Peroneal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T466	Dilation of Right Peroneal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T46Z	Dilation of Right Peroneal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T476	Dilation of Right Peroneal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T47Z	Dilation of Right Peroneal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4D1	Dilation of Right Peroneal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4D6	Dilation of Right Peroneal Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4DZ	Dilation of Right Peroneal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4E6	Dilation of Right Peroneal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4EZ	Dilation of Right Peroneal Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4F6	Dilation of Right Peroneal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4FZ	Dilation of Right Peroneal Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4G6	Dilation of Right Peroneal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4GZ	Dilation of Right Peroneal Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4Z1	Dilation of Right Peroneal Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4Z6	Dilation of Right Peroneal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047T4ZZ	Dilation of Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047U041	Dilation of Left Peroneal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047U046	Dilation of Left Peroneal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047U04Z	Dilation of Left Peroneal Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047U056	Dilation of Left Peroneal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U05Z	Dilation of Left Peroneal Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U066	Dilation of Left Peroneal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U06Z	Dilation of Left Peroneal Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U076	Dilation of Left Peroneal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U07Z	Dilation of Left Peroneal Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U0D1	Dilation of Left Peroneal Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047U0D6	Dilation of Left Peroneal Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047U0DZ	Dilation of Left Peroneal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047U0E6	Dilation of Left Peroneal Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U0EZ	Dilation of Left Peroneal Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U0F6	Dilation of Left Peroneal Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U0FZ	Dilation of Left Peroneal Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U0G6	Dilation of Left Peroneal Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U0GZ	Dilation of Left Peroneal Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047U0Z1	Dilation of Left Peroneal Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047U0Z6	Dilation of Left Peroneal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047U0ZZ	Dilation of Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
047U341	Dilation of Left Peroneal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047U342	Dilation of Left Peroneal Artery with Drug-eluting Intraluminal Device, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047U346	Dilation of Left Peroneal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047U34Z	Dilation of Left Peroneal Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047U352	Dilation of Left Peroneal Artery with Two Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047U356	Dilation of Left Peroneal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U35Z	Dilation of Left Peroneal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U362	Dilation of Left Peroneal Artery with Three Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047U366	Dilation of Left Peroneal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U36Z	Dilation of Left Peroneal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U372	Dilation of Left Peroneal Artery with Four or More Drug-eluting Intraluminal Devices, Sustained Release, Percutaneous Approach	PX	ICD-10-PCS
047U376	Dilation of Left Peroneal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U37Z	Dilation of Left Peroneal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U3D1	Dilation of Left Peroneal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047U3D6	Dilation of Left Peroneal Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047U3DZ	Dilation of Left Peroneal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047U3E6	Dilation of Left Peroneal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U3EZ	Dilation of Left Peroneal Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U3F6	Dilation of Left Peroneal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U3FZ	Dilation of Left Peroneal Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U3G6	Dilation of Left Peroneal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U3GZ	Dilation of Left Peroneal Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047U3Z1	Dilation of Left Peroneal Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047U3Z6	Dilation of Left Peroneal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047U3ZZ	Dilation of Left Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
047U441	Dilation of Left Peroneal Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U446	Dilation of Left Peroneal Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047U44Z	Dilation of Left Peroneal Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U456	Dilation of Left Peroneal Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U45Z	Dilation of Left Peroneal Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U466	Dilation of Left Peroneal Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U46Z	Dilation of Left Peroneal Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U476	Dilation of Left Peroneal Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U47Z	Dilation of Left Peroneal Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4D1	Dilation of Left Peroneal Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4D6	Dilation of Left Peroneal Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4DZ	Dilation of Left Peroneal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4E6	Dilation of Left Peroneal Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4EZ	Dilation of Left Peroneal Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4F6	Dilation of Left Peroneal Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4FZ	Dilation of Left Peroneal Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4G6	Dilation of Left Peroneal Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4GZ	Dilation of Left Peroneal Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4Z1	Dilation of Left Peroneal Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4Z6	Dilation of Left Peroneal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047U4ZZ	Dilation of Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V041	Dilation of Right Foot Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047V046	Dilation of Right Foot Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047V04Z	Dilation of Right Foot Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047V056	Dilation of Right Foot Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047V05Z	Dilation of Right Foot Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V066	Dilation of Right Foot Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V06Z	Dilation of Right Foot Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V076	Dilation of Right Foot Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V07Z	Dilation of Right Foot Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V0D1	Dilation of Right Foot Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047V0D6	Dilation of Right Foot Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047V0DZ	Dilation of Right Foot Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047V0E6	Dilation of Right Foot Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V0EZ	Dilation of Right Foot Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V0F6	Dilation of Right Foot Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V0FZ	Dilation of Right Foot Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V0G6	Dilation of Right Foot Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V0GZ	Dilation of Right Foot Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047V0Z1	Dilation of Right Foot Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047V0Z6	Dilation of Right Foot Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047V0ZZ	Dilation of Right Foot Artery, Open Approach	PX	ICD-10-PCS
047V341	Dilation of Right Foot Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047V346	Dilation of Right Foot Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047V34Z	Dilation of Right Foot Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047V356	Dilation of Right Foot Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V35Z	Dilation of Right Foot Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V366	Dilation of Right Foot Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V36Z	Dilation of Right Foot Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V376	Dilation of Right Foot Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047V37Z	Dilation of Right Foot Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V3D1	Dilation of Right Foot Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047V3D6	Dilation of Right Foot Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047V3DZ	Dilation of Right Foot Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047V3E6	Dilation of Right Foot Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V3EZ	Dilation of Right Foot Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V3F6	Dilation of Right Foot Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V3FZ	Dilation of Right Foot Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V3G6	Dilation of Right Foot Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V3GZ	Dilation of Right Foot Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047V3Z1	Dilation of Right Foot Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047V3Z6	Dilation of Right Foot Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047V3ZZ	Dilation of Right Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
047V441	Dilation of Right Foot Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V446	Dilation of Right Foot Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V44Z	Dilation of Right Foot Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V456	Dilation of Right Foot Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V45Z	Dilation of Right Foot Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V466	Dilation of Right Foot Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V46Z	Dilation of Right Foot Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V476	Dilation of Right Foot Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V47Z	Dilation of Right Foot Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4D1	Dilation of Right Foot Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4D6	Dilation of Right Foot Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047V4DZ	Dilation of Right Foot Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4E6	Dilation of Right Foot Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4EZ	Dilation of Right Foot Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4F6	Dilation of Right Foot Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4FZ	Dilation of Right Foot Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4G6	Dilation of Right Foot Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4GZ	Dilation of Right Foot Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4Z1	Dilation of Right Foot Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4Z6	Dilation of Right Foot Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047V4ZZ	Dilation of Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W041	Dilation of Left Foot Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047W046	Dilation of Left Foot Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047W04Z	Dilation of Left Foot Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047W056	Dilation of Left Foot Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W05Z	Dilation of Left Foot Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W066	Dilation of Left Foot Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W06Z	Dilation of Left Foot Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W076	Dilation of Left Foot Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W07Z	Dilation of Left Foot Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W0D1	Dilation of Left Foot Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047W0D6	Dilation of Left Foot Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047W0DZ	Dilation of Left Foot Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047W0E6	Dilation of Left Foot Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W0EZ	Dilation of Left Foot Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047W0F6	Dilation of Left Foot Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W0FZ	Dilation of Left Foot Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W0G6	Dilation of Left Foot Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W0GZ	Dilation of Left Foot Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047W0Z1	Dilation of Left Foot Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047W0Z6	Dilation of Left Foot Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047W0ZZ	Dilation of Left Foot Artery, Open Approach	PX	ICD-10-PCS
047W341	Dilation of Left Foot Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047W346	Dilation of Left Foot Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047W34Z	Dilation of Left Foot Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047W356	Dilation of Left Foot Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W35Z	Dilation of Left Foot Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W366	Dilation of Left Foot Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W36Z	Dilation of Left Foot Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W376	Dilation of Left Foot Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W37Z	Dilation of Left Foot Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W3D1	Dilation of Left Foot Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047W3D6	Dilation of Left Foot Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047W3DZ	Dilation of Left Foot Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047W3E6	Dilation of Left Foot Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W3EZ	Dilation of Left Foot Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W3F6	Dilation of Left Foot Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W3FZ	Dilation of Left Foot Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W3G6	Dilation of Left Foot Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047W3GZ	Dilation of Left Foot Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047W3Z1	Dilation of Left Foot Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047W3Z6	Dilation of Left Foot Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047W3ZZ	Dilation of Left Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
047W441	Dilation of Left Foot Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W446	Dilation of Left Foot Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W44Z	Dilation of Left Foot Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W456	Dilation of Left Foot Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W45Z	Dilation of Left Foot Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W466	Dilation of Left Foot Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W46Z	Dilation of Left Foot Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W476	Dilation of Left Foot Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W47Z	Dilation of Left Foot Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4D1	Dilation of Left Foot Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4D6	Dilation of Left Foot Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4DZ	Dilation of Left Foot Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4E6	Dilation of Left Foot Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4EZ	Dilation of Left Foot Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4F6	Dilation of Left Foot Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4FZ	Dilation of Left Foot Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4G6	Dilation of Left Foot Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4GZ	Dilation of Left Foot Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4Z1	Dilation of Left Foot Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4Z6	Dilation of Left Foot Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047W4ZZ	Dilation of Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y041	Dilation of Lower Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047Y046	Dilation of Lower Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047Y04Z	Dilation of Lower Artery with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
047Y056	Dilation of Lower Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y05Z	Dilation of Lower Artery with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y066	Dilation of Lower Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y06Z	Dilation of Lower Artery with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y076	Dilation of Lower Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y07Z	Dilation of Lower Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y0D1	Dilation of Lower Artery with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047Y0D6	Dilation of Lower Artery, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047Y0DZ	Dilation of Lower Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
047Y0E6	Dilation of Lower Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y0EZ	Dilation of Lower Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y0F6	Dilation of Lower Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y0FZ	Dilation of Lower Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y0G6	Dilation of Lower Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y0GZ	Dilation of Lower Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-PCS
047Y0Z1	Dilation of Lower Artery using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
047Y0Z6	Dilation of Lower Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
047Y0ZZ	Dilation of Lower Artery, Open Approach	PX	ICD-10-PCS
047Y341	Dilation of Lower Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047Y346	Dilation of Lower Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047Y34Z	Dilation of Lower Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047Y356	Dilation of Lower Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y35Z	Dilation of Lower Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y366	Dilation of Lower Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047Y36Z	Dilation of Lower Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y376	Dilation of Lower Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y37Z	Dilation of Lower Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y3D1	Dilation of Lower Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047Y3D6	Dilation of Lower Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047Y3DZ	Dilation of Lower Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
047Y3E6	Dilation of Lower Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y3EZ	Dilation of Lower Artery with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y3F6	Dilation of Lower Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y3FZ	Dilation of Lower Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y3G6	Dilation of Lower Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y3GZ	Dilation of Lower Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-PCS
047Y3Z1	Dilation of Lower Artery using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
047Y3Z6	Dilation of Lower Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
047Y3ZZ	Dilation of Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
047Y441	Dilation of Lower Artery with Drug-eluting Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y446	Dilation of Lower Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y44Z	Dilation of Lower Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y456	Dilation of Lower Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y45Z	Dilation of Lower Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y466	Dilation of Lower Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y46Z	Dilation of Lower Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y476	Dilation of Lower Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y47Z	Dilation of Lower Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4D1	Dilation of Lower Artery with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
047Y4D6	Dilation of Lower Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4DZ	Dilation of Lower Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4E6	Dilation of Lower Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4EZ	Dilation of Lower Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4F6	Dilation of Lower Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4FZ	Dilation of Lower Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4G6	Dilation of Lower Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4GZ	Dilation of Lower Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4Z1	Dilation of Lower Artery using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4Z6	Dilation of Lower Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
047Y4ZZ	Dilation of Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049000Z	Drainage of Abdominal Aorta with Drainage Device, Open Approach	PX	ICD-10-PCS
04900ZZ	Drainage of Abdominal Aorta, Open Approach	PX	ICD-10-PCS
049040Z	Drainage of Abdominal Aorta with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04904ZZ	Drainage of Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049100Z	Drainage of Celiac Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
04910ZZ	Drainage of Celiac Artery, Open Approach	PX	ICD-10-PCS
049140Z	Drainage of Celiac Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04914ZZ	Drainage of Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049200Z	Drainage of Gastric Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
04920ZZ	Drainage of Gastric Artery, Open Approach	PX	ICD-10-PCS
049240Z	Drainage of Gastric Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04924ZZ	Drainage of Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049300Z	Drainage of Hepatic Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
04930ZZ	Drainage of Hepatic Artery, Open Approach	PX	ICD-10-PCS
049340Z	Drainage of Hepatic Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04934ZZ	Drainage of Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049400Z	Drainage of Splenic Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
04940ZZ	Drainage of Splenic Artery, Open Approach	PX	ICD-10-PCS
049440Z	Drainage of Splenic Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04944ZZ	Drainage of Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
049500Z	Drainage of Superior Mesenteric Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
04950ZZ	Drainage of Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
049540Z	Drainage of Superior Mesenteric Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04954ZZ	Drainage of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049600Z	Drainage of Right Colic Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
04960ZZ	Drainage of Right Colic Artery, Open Approach	PX	ICD-10-PCS
049640Z	Drainage of Right Colic Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04964ZZ	Drainage of Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049700Z	Drainage of Left Colic Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
04970ZZ	Drainage of Left Colic Artery, Open Approach	PX	ICD-10-PCS
049740Z	Drainage of Left Colic Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04974ZZ	Drainage of Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049800Z	Drainage of Middle Colic Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
04980ZZ	Drainage of Middle Colic Artery, Open Approach	PX	ICD-10-PCS
049840Z	Drainage of Middle Colic Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04984ZZ	Drainage of Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049900Z	Drainage of Right Renal Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
04990ZZ	Drainage of Right Renal Artery, Open Approach	PX	ICD-10-PCS
049940Z	Drainage of Right Renal Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04994ZZ	Drainage of Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049A00Z	Drainage of Left Renal Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049A0ZZ	Drainage of Left Renal Artery, Open Approach	PX	ICD-10-PCS
049A40Z	Drainage of Left Renal Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049A4ZZ	Drainage of Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049B00Z	Drainage of Inferior Mesenteric Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049B0ZZ	Drainage of Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
049B40Z	Drainage of Inferior Mesenteric Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049B4ZZ	Drainage of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049C00Z	Drainage of Right Common Iliac Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049C0ZZ	Drainage of Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
049C40Z	Drainage of Right Common Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049C4ZZ	Drainage of Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049D00Z	Drainage of Left Common Iliac Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049D0ZZ	Drainage of Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
049D40Z	Drainage of Left Common Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049D4ZZ	Drainage of Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
049E00Z	Drainage of Right Internal Iliac Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049E0ZZ	Drainage of Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
049E40Z	Drainage of Right Internal Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049E4ZZ	Drainage of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049F00Z	Drainage of Left Internal Iliac Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049F0ZZ	Drainage of Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
049F40Z	Drainage of Left Internal Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049F4ZZ	Drainage of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049H00Z	Drainage of Right External Iliac Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049H0ZZ	Drainage of Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
049H40Z	Drainage of Right External Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049H4ZZ	Drainage of Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049J00Z	Drainage of Left External Iliac Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049J0ZZ	Drainage of Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
049J40Z	Drainage of Left External Iliac Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049J4ZZ	Drainage of Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049K00Z	Drainage of Right Femoral Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049K0ZZ	Drainage of Right Femoral Artery, Open Approach	PX	ICD-10-PCS
049K40Z	Drainage of Right Femoral Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049K4ZZ	Drainage of Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049L00Z	Drainage of Left Femoral Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049L0ZZ	Drainage of Left Femoral Artery, Open Approach	PX	ICD-10-PCS
049L40Z	Drainage of Left Femoral Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049L4ZZ	Drainage of Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049M00Z	Drainage of Right Popliteal Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049M0ZZ	Drainage of Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
049M40Z	Drainage of Right Popliteal Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049M4ZZ	Drainage of Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049N00Z	Drainage of Left Popliteal Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049N0ZZ	Drainage of Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
049N40Z	Drainage of Left Popliteal Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049N4ZZ	Drainage of Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049P00Z	Drainage of Right Anterior Tibial Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049P0ZZ	Drainage of Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
049P40Z	Drainage of Right Anterior Tibial Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049P4ZZ	Drainage of Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
049Q00Z	Drainage of Left Anterior Tibial Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049Q0ZZ	Drainage of Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
049Q40Z	Drainage of Left Anterior Tibial Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049Q4ZZ	Drainage of Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049R00Z	Drainage of Right Posterior Tibial Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049R0ZZ	Drainage of Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
049R40Z	Drainage of Right Posterior Tibial Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049R4ZZ	Drainage of Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049S00Z	Drainage of Left Posterior Tibial Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049S0ZZ	Drainage of Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
049S40Z	Drainage of Left Posterior Tibial Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049S4ZZ	Drainage of Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049T00Z	Drainage of Right Peroneal Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049T0ZZ	Drainage of Right Peroneal Artery, Open Approach	PX	ICD-10-PCS
049T40Z	Drainage of Right Peroneal Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049T4ZZ	Drainage of Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049U00Z	Drainage of Left Peroneal Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049U0ZZ	Drainage of Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
049U40Z	Drainage of Left Peroneal Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049U4ZZ	Drainage of Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049V00Z	Drainage of Right Foot Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049V0ZZ	Drainage of Right Foot Artery, Open Approach	PX	ICD-10-PCS
049V40Z	Drainage of Right Foot Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049V4ZZ	Drainage of Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049W00Z	Drainage of Left Foot Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049W0ZZ	Drainage of Left Foot Artery, Open Approach	PX	ICD-10-PCS
049W40Z	Drainage of Left Foot Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049W4ZZ	Drainage of Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049Y00Z	Drainage of Lower Artery with Drainage Device, Open Approach	PX	ICD-10-PCS
049Y0ZZ	Drainage of Lower Artery, Open Approach	PX	ICD-10-PCS
049Y40Z	Drainage of Lower Artery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
049Y4ZZ	Drainage of Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04B00ZZ	Excision of Abdominal Aorta, Open Approach	PX	ICD-10-PCS
04B03ZZ	Excision of Abdominal Aorta, Percutaneous Approach	PX	ICD-10-PCS
04B04ZZ	Excision of Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04B10ZZ	Excision of Celiac Artery, Open Approach	PX	ICD-10-PCS
04B13ZZ	Excision of Celiac Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04B14ZZ	Excision of Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04B20ZZ	Excision of Gastric Artery, Open Approach	PX	ICD-10-PCS
04B23ZZ	Excision of Gastric Artery, Percutaneous Approach	PX	ICD-10-PCS
04B24ZZ	Excision of Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04B30ZZ	Excision of Hepatic Artery, Open Approach	PX	ICD-10-PCS
04B33ZZ	Excision of Hepatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04B34ZZ	Excision of Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04B40ZZ	Excision of Splenic Artery, Open Approach	PX	ICD-10-PCS
04B43ZZ	Excision of Splenic Artery, Percutaneous Approach	PX	ICD-10-PCS
04B44ZZ	Excision of Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04B50ZZ	Excision of Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04B53ZZ	Excision of Superior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04B54ZZ	Excision of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04B60ZZ	Excision of Right Colic Artery, Open Approach	PX	ICD-10-PCS
04B63ZZ	Excision of Right Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04B64ZZ	Excision of Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04B70ZZ	Excision of Left Colic Artery, Open Approach	PX	ICD-10-PCS
04B73ZZ	Excision of Left Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04B74ZZ	Excision of Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04B80ZZ	Excision of Middle Colic Artery, Open Approach	PX	ICD-10-PCS
04B83ZZ	Excision of Middle Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04B84ZZ	Excision of Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04B90ZZ	Excision of Right Renal Artery, Open Approach	PX	ICD-10-PCS
04B93ZZ	Excision of Right Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04B94ZZ	Excision of Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BA0ZZ	Excision of Left Renal Artery, Open Approach	PX	ICD-10-PCS
04BA3ZZ	Excision of Left Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04BA4ZZ	Excision of Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BB0ZZ	Excision of Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04BB3ZZ	Excision of Inferior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04BB4ZZ	Excision of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BC0ZZ	Excision of Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04BC3ZZ	Excision of Right Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04BC4ZZ	Excision of Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BD0ZZ	Excision of Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04BD3ZZ	Excision of Left Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04BD4ZZ	Excision of Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BE0ZZ	Excision of Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04BE3ZZ	Excision of Right Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04BE4ZZ	Excision of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BF0ZZ	Excision of Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04BF3ZZ	Excision of Left Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04BF4ZZ	Excision of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BH0ZZ	Excision of Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
04BH3ZZ	Excision of Right External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04BH4ZZ	Excision of Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BJ0ZZ	Excision of Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
04BJ3ZZ	Excision of Left External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04BJ4ZZ	Excision of Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BK0ZZ	Excision of Right Femoral Artery, Open Approach	PX	ICD-10-PCS
04BK3ZZ	Excision of Right Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04BK4ZZ	Excision of Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BL0ZZ	Excision of Left Femoral Artery, Open Approach	PX	ICD-10-PCS
04BL3ZZ	Excision of Left Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04BL4ZZ	Excision of Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BM0ZZ	Excision of Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
04BM3ZZ	Excision of Right Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04BM4ZZ	Excision of Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BN0ZZ	Excision of Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
04BN3ZZ	Excision of Left Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04BN4ZZ	Excision of Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BP0ZZ	Excision of Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04BP3ZZ	Excision of Right Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04BP4ZZ	Excision of Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BQ0ZZ	Excision of Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04BQ3ZZ	Excision of Left Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04BQ4ZZ	Excision of Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BR0ZZ	Excision of Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04BR3ZZ	Excision of Right Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04BR4ZZ	Excision of Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BS0ZZ	Excision of Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04BS3ZZ	Excision of Left Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04BS4ZZ	Excision of Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BT0ZZ	Excision of Right Peroneal Artery, Open Approach	PX	ICD-10-PCS
04BT3ZZ	Excision of Right Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04BT4ZZ	Excision of Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BU0ZZ	Excision of Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
04BU3ZZ	Excision of Left Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04BU4ZZ	Excision of Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BV0ZZ	Excision of Right Foot Artery, Open Approach	PX	ICD-10-PCS
04BV3ZZ	Excision of Right Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04BV4ZZ	Excision of Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BW0ZZ	Excision of Left Foot Artery, Open Approach	PX	ICD-10-PCS
04BW3ZZ	Excision of Left Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04BW4ZZ	Excision of Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04BY0ZZ	Excision of Lower Artery, Open Approach	PX	ICD-10-PCS
04BY3ZZ	Excision of Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04BY4ZZ	Excision of Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C00Z6	Extirpation of Matter from Abdominal Aorta, Bifurcation, Open Approach	PX	ICD-10-PCS
04C00ZZ	Extirpation of Matter from Abdominal Aorta, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04C03Z6	Extirpation of Matter from Abdominal Aorta, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04C03ZZ	Extirpation of Matter from Abdominal Aorta, Percutaneous Approach	PX	ICD-10-PCS
04C04Z6	Extirpation of Matter from Abdominal Aorta, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C04ZZ	Extirpation of Matter from Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C10Z6	Extirpation of Matter from Celiac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04C10ZZ	Extirpation of Matter from Celiac Artery, Open Approach	PX	ICD-10-PCS
04C13Z6	Extirpation of Matter from Celiac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04C13ZZ	Extirpation of Matter from Celiac Artery, Percutaneous Approach	PX	ICD-10-PCS
04C14Z6	Extirpation of Matter from Celiac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C14ZZ	Extirpation of Matter from Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C20Z6	Extirpation of Matter from Gastric Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04C20ZZ	Extirpation of Matter from Gastric Artery, Open Approach	PX	ICD-10-PCS
04C23Z6	Extirpation of Matter from Gastric Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04C23ZZ	Extirpation of Matter from Gastric Artery, Percutaneous Approach	PX	ICD-10-PCS
04C24Z6	Extirpation of Matter from Gastric Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C24ZZ	Extirpation of Matter from Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C30Z6	Extirpation of Matter from Hepatic Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04C30ZZ	Extirpation of Matter from Hepatic Artery, Open Approach	PX	ICD-10-PCS
04C33Z6	Extirpation of Matter from Hepatic Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04C33ZZ	Extirpation of Matter from Hepatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04C34Z6	Extirpation of Matter from Hepatic Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C34ZZ	Extirpation of Matter from Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C40Z6	Extirpation of Matter from Splenic Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04C40ZZ	Extirpation of Matter from Splenic Artery, Open Approach	PX	ICD-10-PCS
04C43Z6	Extirpation of Matter from Splenic Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04C43ZZ	Extirpation of Matter from Splenic Artery, Percutaneous Approach	PX	ICD-10-PCS
04C44Z6	Extirpation of Matter from Splenic Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C44ZZ	Extirpation of Matter from Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C50Z6	Extirpation of Matter from Superior Mesenteric Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04C50ZZ	Extirpation of Matter from Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04C53Z6	Extirpation of Matter from Superior Mesenteric Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04C53ZZ	Extirpation of Matter from Superior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04C54Z6	Extirpation of Matter from Superior Mesenteric Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C54ZZ	Extirpation of Matter from Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04C60Z6	Extirpation of Matter from Right Colic Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04C60ZZ	Extirpation of Matter from Right Colic Artery, Open Approach	PX	ICD-10-PCS
04C63Z6	Extirpation of Matter from Right Colic Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04C63ZZ	Extirpation of Matter from Right Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04C64Z6	Extirpation of Matter from Right Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C64ZZ	Extirpation of Matter from Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C70Z6	Extirpation of Matter from Left Colic Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04C70ZZ	Extirpation of Matter from Left Colic Artery, Open Approach	PX	ICD-10-PCS
04C73Z6	Extirpation of Matter from Left Colic Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04C73ZZ	Extirpation of Matter from Left Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04C74Z6	Extirpation of Matter from Left Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C74ZZ	Extirpation of Matter from Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C80Z6	Extirpation of Matter from Middle Colic Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04C80ZZ	Extirpation of Matter from Middle Colic Artery, Open Approach	PX	ICD-10-PCS
04C83Z6	Extirpation of Matter from Middle Colic Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04C83ZZ	Extirpation of Matter from Middle Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04C84Z6	Extirpation of Matter from Middle Colic Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C84ZZ	Extirpation of Matter from Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C90Z6	Extirpation of Matter from Right Renal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04C90ZZ	Extirpation of Matter from Right Renal Artery, Open Approach	PX	ICD-10-PCS
04C93Z6	Extirpation of Matter from Right Renal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04C93ZZ	Extirpation of Matter from Right Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04C94Z6	Extirpation of Matter from Right Renal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04C94ZZ	Extirpation of Matter from Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CA0Z6	Extirpation of Matter from Left Renal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CA0ZZ	Extirpation of Matter from Left Renal Artery, Open Approach	PX	ICD-10-PCS
04CA3Z6	Extirpation of Matter from Left Renal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CA3ZZ	Extirpation of Matter from Left Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04CA4Z6	Extirpation of Matter from Left Renal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CA4ZZ	Extirpation of Matter from Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04CB0Z6	Extirpation of Matter from Inferior Mesenteric Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CB0ZZ	Extirpation of Matter from Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04CB3Z6	Extirpation of Matter from Inferior Mesenteric Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CB3ZZ	Extirpation of Matter from Inferior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04CB4Z6	Extirpation of Matter from Inferior Mesenteric Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CB4ZZ	Extirpation of Matter from Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CC0Z6	Extirpation of Matter from Right Common Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CC0ZZ	Extirpation of Matter from Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04CC3Z6	Extirpation of Matter from Right Common Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CC3ZZ	Extirpation of Matter from Right Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04CC4Z6	Extirpation of Matter from Right Common Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CC4ZZ	Extirpation of Matter from Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CD0Z6	Extirpation of Matter from Left Common Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CD0ZZ	Extirpation of Matter from Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04CD3Z6	Extirpation of Matter from Left Common Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CD3ZZ	Extirpation of Matter from Left Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04CD4Z6	Extirpation of Matter from Left Common Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CD4ZZ	Extirpation of Matter from Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CE0Z6	Extirpation of Matter from Right Internal Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CE0ZZ	Extirpation of Matter from Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04CE3Z6	Extirpation of Matter from Right Internal Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CE3ZZ	Extirpation of Matter from Right Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04CE4Z6	Extirpation of Matter from Right Internal Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CE4ZZ	Extirpation of Matter from Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CF0Z6	Extirpation of Matter from Left Internal Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CF0ZZ	Extirpation of Matter from Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04CF3Z6	Extirpation of Matter from Left Internal Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CF3ZZ	Extirpation of Matter from Left Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04CF4Z6	Extirpation of Matter from Left Internal Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CF4ZZ	Extirpation of Matter from Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CH0Z6	Extirpation of Matter from Right External Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CH0ZZ	Extirpation of Matter from Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
04CH3Z6	Extirpation of Matter from Right External Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CH3ZZ	Extirpation of Matter from Right External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04CH4Z6	Extirpation of Matter from Right External Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CH4ZZ	Extirpation of Matter from Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CJ0Z6	Extirpation of Matter from Left External Iliac Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CJ0ZZ	Extirpation of Matter from Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
04CJ3Z6	Extirpation of Matter from Left External Iliac Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CJ3ZZ	Extirpation of Matter from Left External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04CJ4Z6	Extirpation of Matter from Left External Iliac Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CJ4ZZ	Extirpation of Matter from Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CK0Z6	Extirpation of Matter from Right Femoral Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CK0ZZ	Extirpation of Matter from Right Femoral Artery, Open Approach	PX	ICD-10-PCS
04CK3Z6	Extirpation of Matter from Right Femoral Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CK3ZZ	Extirpation of Matter from Right Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04CK4Z6	Extirpation of Matter from Right Femoral Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CK4ZZ	Extirpation of Matter from Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CL0Z6	Extirpation of Matter from Left Femoral Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CL0ZZ	Extirpation of Matter from Left Femoral Artery, Open Approach	PX	ICD-10-PCS
04CL3Z6	Extirpation of Matter from Left Femoral Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CL3ZZ	Extirpation of Matter from Left Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04CL4Z6	Extirpation of Matter from Left Femoral Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CL4ZZ	Extirpation of Matter from Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CM0Z6	Extirpation of Matter from Right Popliteal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CM0ZZ	Extirpation of Matter from Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
04CM3Z6	Extirpation of Matter from Right Popliteal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04CM3ZZ	Extirpation of Matter from Right Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04CM4Z6	Extirpation of Matter from Right Popliteal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CM4ZZ	Extirpation of Matter from Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CN0Z6	Extirpation of Matter from Left Popliteal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CN0ZZ	Extirpation of Matter from Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
04CN3Z6	Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CN3ZZ	Extirpation of Matter from Left Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04CN4Z6	Extirpation of Matter from Left Popliteal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CN4ZZ	Extirpation of Matter from Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CP0Z6	Extirpation of Matter from Right Anterior Tibial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CP0ZZ	Extirpation of Matter from Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04CP3Z6	Extirpation of Matter from Right Anterior Tibial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CP3ZZ	Extirpation of Matter from Right Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04CP4Z6	Extirpation of Matter from Right Anterior Tibial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CP4ZZ	Extirpation of Matter from Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CQ0Z6	Extirpation of Matter from Left Anterior Tibial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CQ0ZZ	Extirpation of Matter from Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04CQ3Z6	Extirpation of Matter from Left Anterior Tibial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CQ3ZZ	Extirpation of Matter from Left Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04CQ4Z6	Extirpation of Matter from Left Anterior Tibial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CQ4ZZ	Extirpation of Matter from Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CR0Z6	Extirpation of Matter from Right Posterior Tibial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CR0ZZ	Extirpation of Matter from Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04CR3Z6	Extirpation of Matter from Right Posterior Tibial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CR3ZZ	Extirpation of Matter from Right Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04CR4Z6	Extirpation of Matter from Right Posterior Tibial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CR4ZZ	Extirpation of Matter from Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04CS0Z6	Extirpation of Matter from Left Posterior Tibial Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CS0ZZ	Extirpation of Matter from Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04CS3Z6	Extirpation of Matter from Left Posterior Tibial Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CS3ZZ	Extirpation of Matter from Left Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04CS4Z6	Extirpation of Matter from Left Posterior Tibial Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CS4ZZ	Extirpation of Matter from Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CT0Z6	Extirpation of Matter from Right Peroneal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CT0ZZ	Extirpation of Matter from Right Peroneal Artery, Open Approach	PX	ICD-10-PCS
04CT3Z6	Extirpation of Matter from Right Peroneal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CT3ZZ	Extirpation of Matter from Right Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04CT4Z6	Extirpation of Matter from Right Peroneal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CT4ZZ	Extirpation of Matter from Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CU0Z6	Extirpation of Matter from Left Peroneal Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CU0ZZ	Extirpation of Matter from Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
04CU3Z6	Extirpation of Matter from Left Peroneal Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CU3ZZ	Extirpation of Matter from Left Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04CU4Z6	Extirpation of Matter from Left Peroneal Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CU4ZZ	Extirpation of Matter from Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CV0Z6	Extirpation of Matter from Right Foot Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CV0ZZ	Extirpation of Matter from Right Foot Artery, Open Approach	PX	ICD-10-PCS
04CV3Z6	Extirpation of Matter from Right Foot Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CV3ZZ	Extirpation of Matter from Right Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04CV4Z6	Extirpation of Matter from Right Foot Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CV4ZZ	Extirpation of Matter from Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CW0Z6	Extirpation of Matter from Left Foot Artery, Bifurcation, Open Approach	PX	ICD-10-PCS
04CW0ZZ	Extirpation of Matter from Left Foot Artery, Open Approach	PX	ICD-10-PCS
04CW3Z6	Extirpation of Matter from Left Foot Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CW3ZZ	Extirpation of Matter from Left Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04CW4Z6	Extirpation of Matter from Left Foot Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CW4ZZ	Extirpation of Matter from Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CY0Z6	Extirpation of Matter from Lower Artery, Bifurcation, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04CY0ZZ	Extirpation of Matter from Lower Artery, Open Approach	PX	ICD-10-PCS
04CY3Z6	Extirpation of Matter from Lower Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04CY3ZZ	Extirpation of Matter from Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04CY4Z6	Extirpation of Matter from Lower Artery, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04CY4ZZ	Extirpation of Matter from Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H003Z	Insertion of Infusion Device into Abdominal Aorta, Open Approach	PX	ICD-10-PCS
04H00DZ	Insertion of Intraluminal Device into Abdominal Aorta, Open Approach	PX	ICD-10-PCS
04H03DZ	Insertion of Intraluminal Device into Abdominal Aorta, Percutaneous Approach	PX	ICD-10-PCS
04H043Z	Insertion of Infusion Device into Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H04DZ	Insertion of Intraluminal Device into Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H103Z	Insertion of Infusion Device into Celiac Artery, Open Approach	PX	ICD-10-PCS
04H10DZ	Insertion of Intraluminal Device into Celiac Artery, Open Approach	PX	ICD-10-PCS
04H13DZ	Insertion of Intraluminal Device into Celiac Artery, Percutaneous Approach	PX	ICD-10-PCS
04H143Z	Insertion of Infusion Device into Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H14DZ	Insertion of Intraluminal Device into Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H203Z	Insertion of Infusion Device into Gastric Artery, Open Approach	PX	ICD-10-PCS
04H20DZ	Insertion of Intraluminal Device into Gastric Artery, Open Approach	PX	ICD-10-PCS
04H23DZ	Insertion of Intraluminal Device into Gastric Artery, Percutaneous Approach	PX	ICD-10-PCS
04H243Z	Insertion of Infusion Device into Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H24DZ	Insertion of Intraluminal Device into Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H303Z	Insertion of Infusion Device into Hepatic Artery, Open Approach	PX	ICD-10-PCS
04H30DZ	Insertion of Intraluminal Device into Hepatic Artery, Open Approach	PX	ICD-10-PCS
04H33DZ	Insertion of Intraluminal Device into Hepatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04H343Z	Insertion of Infusion Device into Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H34DZ	Insertion of Intraluminal Device into Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H403Z	Insertion of Infusion Device into Splenic Artery, Open Approach	PX	ICD-10-PCS
04H40DZ	Insertion of Intraluminal Device into Splenic Artery, Open Approach	PX	ICD-10-PCS
04H43DZ	Insertion of Intraluminal Device into Splenic Artery, Percutaneous Approach	PX	ICD-10-PCS
04H443Z	Insertion of Infusion Device into Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H44DZ	Insertion of Intraluminal Device into Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H503Z	Insertion of Infusion Device into Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04H50DZ	Insertion of Intraluminal Device into Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
04H53DZ	Insertion of Intraluminal Device into Superior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04H543Z	Insertion of Infusion Device into Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H54DZ	Insertion of Intraluminal Device into Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H603Z	Insertion of Infusion Device into Right Colic Artery, Open Approach	PX	ICD-10-PCS
04H60DZ	Insertion of Intraluminal Device into Right Colic Artery, Open Approach	PX	ICD-10-PCS
04H63DZ	Insertion of Intraluminal Device into Right Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04H643Z	Insertion of Infusion Device into Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H64DZ	Insertion of Intraluminal Device into Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H703Z	Insertion of Infusion Device into Left Colic Artery, Open Approach	PX	ICD-10-PCS
04H70DZ	Insertion of Intraluminal Device into Left Colic Artery, Open Approach	PX	ICD-10-PCS
04H73DZ	Insertion of Intraluminal Device into Left Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04H743Z	Insertion of Infusion Device into Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H74DZ	Insertion of Intraluminal Device into Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H803Z	Insertion of Infusion Device into Middle Colic Artery, Open Approach	PX	ICD-10-PCS
04H80DZ	Insertion of Intraluminal Device into Middle Colic Artery, Open Approach	PX	ICD-10-PCS
04H83DZ	Insertion of Intraluminal Device into Middle Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04H843Z	Insertion of Infusion Device into Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H84DZ	Insertion of Intraluminal Device into Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H903Z	Insertion of Infusion Device into Right Renal Artery, Open Approach	PX	ICD-10-PCS
04H90DZ	Insertion of Intraluminal Device into Right Renal Artery, Open Approach	PX	ICD-10-PCS
04H93DZ	Insertion of Intraluminal Device into Right Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04H943Z	Insertion of Infusion Device into Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04H94DZ	Insertion of Intraluminal Device into Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HA03Z	Insertion of Infusion Device into Left Renal Artery, Open Approach	PX	ICD-10-PCS
04HA0DZ	Insertion of Intraluminal Device into Left Renal Artery, Open Approach	PX	ICD-10-PCS
04HA3DZ	Insertion of Intraluminal Device into Left Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04HA43Z	Insertion of Infusion Device into Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HA4DZ	Insertion of Intraluminal Device into Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HB03Z	Insertion of Infusion Device into Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04HB0DZ	Insertion of Intraluminal Device into Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
04HB3DZ	Insertion of Intraluminal Device into Inferior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04HB43Z	Insertion of Infusion Device into Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HB4DZ	Insertion of Intraluminal Device into Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HC03Z	Insertion of Infusion Device into Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04HC0DZ	Insertion of Intraluminal Device into Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04HC3DZ	Insertion of Intraluminal Device into Right Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04HC43Z	Insertion of Infusion Device into Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HC4DZ	Insertion of Intraluminal Device into Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HD03Z	Insertion of Infusion Device into Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04HD0DZ	Insertion of Intraluminal Device into Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04HD3DZ	Insertion of Intraluminal Device into Left Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04HD43Z	Insertion of Infusion Device into Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HD4DZ	Insertion of Intraluminal Device into Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HE03Z	Insertion of Infusion Device into Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04HE0DZ	Insertion of Intraluminal Device into Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04HE3DZ	Insertion of Intraluminal Device into Right Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04HE43Z	Insertion of Infusion Device into Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HE4DZ	Insertion of Intraluminal Device into Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HF03Z	Insertion of Infusion Device into Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04HF0DZ	Insertion of Intraluminal Device into Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04HF3DZ	Insertion of Intraluminal Device into Left Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04HF43Z	Insertion of Infusion Device into Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HF4DZ	Insertion of Intraluminal Device into Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HH03Z	Insertion of Infusion Device into Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
04HH0DZ	Insertion of Intraluminal Device into Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
04HH3DZ	Insertion of Intraluminal Device into Right External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04HH43Z	Insertion of Infusion Device into Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04HH4DZ	Insertion of Intraluminal Device into Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HJ03Z	Insertion of Infusion Device into Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
04HJ0DZ	Insertion of Intraluminal Device into Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
04HJ3DZ	Insertion of Intraluminal Device into Left External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04HJ43Z	Insertion of Infusion Device into Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HJ4DZ	Insertion of Intraluminal Device into Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HK03Z	Insertion of Infusion Device into Right Femoral Artery, Open Approach	PX	ICD-10-PCS
04HK0DZ	Insertion of Intraluminal Device into Right Femoral Artery, Open Approach	PX	ICD-10-PCS
04HK3DZ	Insertion of Intraluminal Device into Right Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04HK43Z	Insertion of Infusion Device into Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HK4DZ	Insertion of Intraluminal Device into Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HL03Z	Insertion of Infusion Device into Left Femoral Artery, Open Approach	PX	ICD-10-PCS
04HL0DZ	Insertion of Intraluminal Device into Left Femoral Artery, Open Approach	PX	ICD-10-PCS
04HL3DZ	Insertion of Intraluminal Device into Left Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04HL43Z	Insertion of Infusion Device into Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HL4DZ	Insertion of Intraluminal Device into Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HM03Z	Insertion of Infusion Device into Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
04HM0DZ	Insertion of Intraluminal Device into Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
04HM3DZ	Insertion of Intraluminal Device into Right Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04HM43Z	Insertion of Infusion Device into Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HM4DZ	Insertion of Intraluminal Device into Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HN03Z	Insertion of Infusion Device into Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
04HN0DZ	Insertion of Intraluminal Device into Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
04HN3DZ	Insertion of Intraluminal Device into Left Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04HN43Z	Insertion of Infusion Device into Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HN4DZ	Insertion of Intraluminal Device into Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HP03Z	Insertion of Infusion Device into Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04HP0DZ	Insertion of Intraluminal Device into Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04HP3DZ	Insertion of Intraluminal Device into Right Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04HP43Z	Insertion of Infusion Device into Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HP4DZ	Insertion of Intraluminal Device into Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HQ03Z	Insertion of Infusion Device into Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04HQ0DZ	Insertion of Intraluminal Device into Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04HQ3DZ	Insertion of Intraluminal Device into Left Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04HQ43Z	Insertion of Infusion Device into Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HQ4DZ	Insertion of Intraluminal Device into Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HR03Z	Insertion of Infusion Device into Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04HR0DZ	Insertion of Intraluminal Device into Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04HR3DZ	Insertion of Intraluminal Device into Right Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04HR43Z	Insertion of Infusion Device into Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HR4DZ	Insertion of Intraluminal Device into Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HS03Z	Insertion of Infusion Device into Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04HS0DZ	Insertion of Intraluminal Device into Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04HS3DZ	Insertion of Intraluminal Device into Left Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04HS43Z	Insertion of Infusion Device into Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HS4DZ	Insertion of Intraluminal Device into Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HT03Z	Insertion of Infusion Device into Right Peroneal Artery, Open Approach	PX	ICD-10-PCS
04HT0DZ	Insertion of Intraluminal Device into Right Peroneal Artery, Open Approach	PX	ICD-10-PCS
04HT3DZ	Insertion of Intraluminal Device into Right Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04HT43Z	Insertion of Infusion Device into Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HT4DZ	Insertion of Intraluminal Device into Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HU03Z	Insertion of Infusion Device into Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
04HU0DZ	Insertion of Intraluminal Device into Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
04HU3DZ	Insertion of Intraluminal Device into Left Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04HU43Z	Insertion of Infusion Device into Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04HU4DZ	Insertion of Intraluminal Device into Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HV03Z	Insertion of Infusion Device into Right Foot Artery, Open Approach	PX	ICD-10-PCS
04HV0DZ	Insertion of Intraluminal Device into Right Foot Artery, Open Approach	PX	ICD-10-PCS
04HV3DZ	Insertion of Intraluminal Device into Right Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04HV43Z	Insertion of Infusion Device into Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HV4DZ	Insertion of Intraluminal Device into Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HW03Z	Insertion of Infusion Device into Left Foot Artery, Open Approach	PX	ICD-10-PCS
04HW0DZ	Insertion of Intraluminal Device into Left Foot Artery, Open Approach	PX	ICD-10-PCS
04HW3DZ	Insertion of Intraluminal Device into Left Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04HW43Z	Insertion of Infusion Device into Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HW4DZ	Insertion of Intraluminal Device into Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HY03Z	Insertion of Infusion Device into Lower Artery, Open Approach	PX	ICD-10-PCS
04HY0DZ	Insertion of Intraluminal Device into Lower Artery, Open Approach	PX	ICD-10-PCS
04HY0YZ	Insertion of Other Device into Lower Artery, Open Approach	PX	ICD-10-PCS
04HY3DZ	Insertion of Intraluminal Device into Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04HY43Z	Insertion of Infusion Device into Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HY4DZ	Insertion of Intraluminal Device into Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04HY4YZ	Insertion of Other Device into Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L00CZ	Occlusion of Abdominal Aorta with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04L00DJ	Occlusion of Abdominal Aorta with Intraluminal Device, Temporary, Open Approach	PX	ICD-10-PCS
04L00DZ	Occlusion of Abdominal Aorta with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04L00ZZ	Occlusion of Abdominal Aorta, Open Approach	PX	ICD-10-PCS
04L03CZ	Occlusion of Abdominal Aorta with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L03DZ	Occlusion of Abdominal Aorta with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L03ZZ	Occlusion of Abdominal Aorta, Percutaneous Approach	PX	ICD-10-PCS
04L04CZ	Occlusion of Abdominal Aorta with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L04DZ	Occlusion of Abdominal Aorta with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L04ZZ	Occlusion of Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L10CZ	Occlusion of Celiac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04L10DZ	Occlusion of Celiac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04L10ZZ	Occlusion of Celiac Artery, Open Approach	PX	ICD-10-PCS
04L13CZ	Occlusion of Celiac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L13DZ	Occlusion of Celiac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L13ZZ	Occlusion of Celiac Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04L14CZ	Occlusion of Celiac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L14DZ	Occlusion of Celiac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L14ZZ	Occlusion of Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L20CZ	Occlusion of Gastric Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04L20DZ	Occlusion of Gastric Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04L20ZZ	Occlusion of Gastric Artery, Open Approach	PX	ICD-10-PCS
04L23CZ	Occlusion of Gastric Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L23DZ	Occlusion of Gastric Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L23ZZ	Occlusion of Gastric Artery, Percutaneous Approach	PX	ICD-10-PCS
04L24CZ	Occlusion of Gastric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L24DZ	Occlusion of Gastric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L24ZZ	Occlusion of Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L30CZ	Occlusion of Hepatic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04L30DZ	Occlusion of Hepatic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04L30ZZ	Occlusion of Hepatic Artery, Open Approach	PX	ICD-10-PCS
04L33CZ	Occlusion of Hepatic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L33DZ	Occlusion of Hepatic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L33ZZ	Occlusion of Hepatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04L34CZ	Occlusion of Hepatic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L34DZ	Occlusion of Hepatic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L34ZZ	Occlusion of Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L40CZ	Occlusion of Splenic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04L40DZ	Occlusion of Splenic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04L40ZZ	Occlusion of Splenic Artery, Open Approach	PX	ICD-10-PCS
04L43CZ	Occlusion of Splenic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L43DZ	Occlusion of Splenic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L43ZZ	Occlusion of Splenic Artery, Percutaneous Approach	PX	ICD-10-PCS
04L44CZ	Occlusion of Splenic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L44DZ	Occlusion of Splenic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L44ZZ	Occlusion of Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L50CZ	Occlusion of Superior Mesenteric Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04L50DZ	Occlusion of Superior Mesenteric Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04L50ZZ	Occlusion of Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04L53CZ	Occlusion of Superior Mesenteric Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04L53DZ	Occlusion of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L53ZZ	Occlusion of Superior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04L54CZ	Occlusion of Superior Mesenteric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L54DZ	Occlusion of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L54ZZ	Occlusion of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L60CZ	Occlusion of Right Colic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04L60DZ	Occlusion of Right Colic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04L60ZZ	Occlusion of Right Colic Artery, Open Approach	PX	ICD-10-PCS
04L63CZ	Occlusion of Right Colic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L63DZ	Occlusion of Right Colic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L63ZZ	Occlusion of Right Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04L64CZ	Occlusion of Right Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L64DZ	Occlusion of Right Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L64ZZ	Occlusion of Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L70CZ	Occlusion of Left Colic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04L70DZ	Occlusion of Left Colic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04L70ZZ	Occlusion of Left Colic Artery, Open Approach	PX	ICD-10-PCS
04L73CZ	Occlusion of Left Colic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L73DZ	Occlusion of Left Colic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L73ZZ	Occlusion of Left Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04L74CZ	Occlusion of Left Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L74DZ	Occlusion of Left Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L74ZZ	Occlusion of Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L80CZ	Occlusion of Middle Colic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04L80DZ	Occlusion of Middle Colic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04L80ZZ	Occlusion of Middle Colic Artery, Open Approach	PX	ICD-10-PCS
04L83CZ	Occlusion of Middle Colic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L83DZ	Occlusion of Middle Colic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L83ZZ	Occlusion of Middle Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04L84CZ	Occlusion of Middle Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L84DZ	Occlusion of Middle Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L84ZZ	Occlusion of Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L90CZ	Occlusion of Right Renal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04L90DZ	Occlusion of Right Renal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04L90ZZ	Occlusion of Right Renal Artery, Open Approach	PX	ICD-10-PCS
04L93CZ	Occlusion of Right Renal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L93DZ	Occlusion of Right Renal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04L93ZZ	Occlusion of Right Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04L94CZ	Occlusion of Right Renal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L94DZ	Occlusion of Right Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04L94ZZ	Occlusion of Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LA0CZ	Occlusion of Left Renal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LA0DZ	Occlusion of Left Renal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LA0ZZ	Occlusion of Left Renal Artery, Open Approach	PX	ICD-10-PCS
04LA3CZ	Occlusion of Left Renal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LA3DZ	Occlusion of Left Renal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LA3ZZ	Occlusion of Left Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04LA4CZ	Occlusion of Left Renal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LA4DZ	Occlusion of Left Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LA4ZZ	Occlusion of Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LB0CZ	Occlusion of Inferior Mesenteric Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LB0DZ	Occlusion of Inferior Mesenteric Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LB0ZZ	Occlusion of Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04LB3CZ	Occlusion of Inferior Mesenteric Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LB3DZ	Occlusion of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LB3ZZ	Occlusion of Inferior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04LB4CZ	Occlusion of Inferior Mesenteric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LB4DZ	Occlusion of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LB4ZZ	Occlusion of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LC0CZ	Occlusion of Right Common Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LC0DZ	Occlusion of Right Common Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LC0ZZ	Occlusion of Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04LC3CZ	Occlusion of Right Common Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04LC3DZ	Occlusion of Right Common Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LC3ZZ	Occlusion of Right Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04LC4CZ	Occlusion of Right Common Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LC4DZ	Occlusion of Right Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LC4ZZ	Occlusion of Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LD0CZ	Occlusion of Left Common Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LD0DZ	Occlusion of Left Common Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LD0ZZ	Occlusion of Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04LD3CZ	Occlusion of Left Common Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LD3DZ	Occlusion of Left Common Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LD3ZZ	Occlusion of Left Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04LD4CZ	Occlusion of Left Common Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LD4DZ	Occlusion of Left Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LD4ZZ	Occlusion of Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LE0CT	Occlusion of Right Uterine Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LE0CV	Occlusion of Right Prostatic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LE0CZ	Occlusion of Right Internal Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LE0DT	Occlusion of Right Uterine Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LE0DV	Occlusion of Right Prostatic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LE0DZ	Occlusion of Right Internal Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LE0ZT	Occlusion of Right Uterine Artery, Open Approach	PX	ICD-10-PCS
04LE0ZV	Occlusion of Right Prostatic Artery, Open Approach	PX	ICD-10-PCS
04LE0ZZ	Occlusion of Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04LE3CT	Occlusion of Right Uterine Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LE3CV	Occlusion of Right Prostatic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LE3CZ	Occlusion of Right Internal Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LE3DT	Occlusion of Right Uterine Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LE3DV	Occlusion of Right Prostatic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LE3DZ	Occlusion of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LE3ZT	Occlusion of Right Uterine Artery, Percutaneous Approach	PX	ICD-10-PCS
04LE3ZV	Occlusion of Right Prostatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04LE3ZZ	Occlusion of Right Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04LE4CT	Occlusion of Right Uterine Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LE4CV	Occlusion of Right Prostatic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LE4CZ	Occlusion of Right Internal Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LE4DT	Occlusion of Right Uterine Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LE4DV	Occlusion of Right Prostatic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LE4DZ	Occlusion of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LE4ZT	Occlusion of Right Uterine Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LE4ZV	Occlusion of Right Prostatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LE4ZZ	Occlusion of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LF0CU	Occlusion of Left Uterine Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LF0CW	Occlusion of Left Prostatic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LF0CZ	Occlusion of Left Internal Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LF0DU	Occlusion of Left Uterine Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LF0DW	Occlusion of Left Prostatic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LF0DZ	Occlusion of Left Internal Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LF0ZU	Occlusion of Left Uterine Artery, Open Approach	PX	ICD-10-PCS
04LF0ZW	Occlusion of Left Prostatic Artery, Open Approach	PX	ICD-10-PCS
04LF0ZZ	Occlusion of Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04LF3CU	Occlusion of Left Uterine Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LF3CW	Occlusion of Left Prostatic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LF3CZ	Occlusion of Left Internal Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LF3DU	Occlusion of Left Uterine Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LF3DW	Occlusion of Left Prostatic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LF3DZ	Occlusion of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LF3ZU	Occlusion of Left Uterine Artery, Percutaneous Approach	PX	ICD-10-PCS
04LF3ZW	Occlusion of Left Prostatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04LF3ZZ	Occlusion of Left Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04LF4CU	Occlusion of Left Uterine Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LF4CW	Occlusion of Left Prostatic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LF4CZ	Occlusion of Left Internal Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04LF4DU	Occlusion of Left Uterine Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LF4DW	Occlusion of Left Prostatic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LF4DZ	Occlusion of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LF4ZU	Occlusion of Left Uterine Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LF4ZW	Occlusion of Left Prostatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LF4ZZ	Occlusion of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LH0CZ	Occlusion of Right External Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LH0DZ	Occlusion of Right External Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LH0ZZ	Occlusion of Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
04LH3CZ	Occlusion of Right External Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LH3DZ	Occlusion of Right External Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LH3ZZ	Occlusion of Right External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04LH4CZ	Occlusion of Right External Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LH4DZ	Occlusion of Right External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LH4ZZ	Occlusion of Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LJ0CZ	Occlusion of Left External Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LJ0DZ	Occlusion of Left External Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LJ0ZZ	Occlusion of Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
04LJ3CZ	Occlusion of Left External Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LJ3DZ	Occlusion of Left External Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LJ3ZZ	Occlusion of Left External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04LJ4CZ	Occlusion of Left External Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LJ4DZ	Occlusion of Left External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LJ4ZZ	Occlusion of Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LK0CZ	Occlusion of Right Femoral Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LK0DZ	Occlusion of Right Femoral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LK0ZZ	Occlusion of Right Femoral Artery, Open Approach	PX	ICD-10-PCS
04LK3CZ	Occlusion of Right Femoral Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LK3DZ	Occlusion of Right Femoral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LK3ZZ	Occlusion of Right Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04LK4CZ	Occlusion of Right Femoral Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LK4DZ	Occlusion of Right Femoral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LK4ZZ	Occlusion of Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LL0CZ	Occlusion of Left Femoral Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LL0DZ	Occlusion of Left Femoral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LL0ZZ	Occlusion of Left Femoral Artery, Open Approach	PX	ICD-10-PCS
04LL3CZ	Occlusion of Left Femoral Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LL3DZ	Occlusion of Left Femoral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LL3ZZ	Occlusion of Left Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04LL4CZ	Occlusion of Left Femoral Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LL4DZ	Occlusion of Left Femoral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LL4ZZ	Occlusion of Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LM0CZ	Occlusion of Right Popliteal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LM0DZ	Occlusion of Right Popliteal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LM0ZZ	Occlusion of Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
04LM3CZ	Occlusion of Right Popliteal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LM3DZ	Occlusion of Right Popliteal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LM3ZZ	Occlusion of Right Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04LM4CZ	Occlusion of Right Popliteal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LM4DZ	Occlusion of Right Popliteal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LM4ZZ	Occlusion of Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LN0CZ	Occlusion of Left Popliteal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LN0DZ	Occlusion of Left Popliteal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LN0ZZ	Occlusion of Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
04LN3CZ	Occlusion of Left Popliteal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LN3DZ	Occlusion of Left Popliteal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LN3ZZ	Occlusion of Left Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04LN4CZ	Occlusion of Left Popliteal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LN4DZ	Occlusion of Left Popliteal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LN4ZZ	Occlusion of Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04LP0CZ	Occlusion of Right Anterior Tibial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LP0DZ	Occlusion of Right Anterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LP0ZZ	Occlusion of Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04LP3CZ	Occlusion of Right Anterior Tibial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LP3DZ	Occlusion of Right Anterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LP3ZZ	Occlusion of Right Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04LP4CZ	Occlusion of Right Anterior Tibial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LP4DZ	Occlusion of Right Anterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LP4ZZ	Occlusion of Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LQ0CZ	Occlusion of Left Anterior Tibial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LQ0DZ	Occlusion of Left Anterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LQ0ZZ	Occlusion of Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04LQ3CZ	Occlusion of Left Anterior Tibial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LQ3DZ	Occlusion of Left Anterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LQ3ZZ	Occlusion of Left Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04LQ4CZ	Occlusion of Left Anterior Tibial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LQ4DZ	Occlusion of Left Anterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LQ4ZZ	Occlusion of Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LR0CZ	Occlusion of Right Posterior Tibial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LR0DZ	Occlusion of Right Posterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LR0ZZ	Occlusion of Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04LR3CZ	Occlusion of Right Posterior Tibial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LR3DZ	Occlusion of Right Posterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LR3ZZ	Occlusion of Right Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04LR4CZ	Occlusion of Right Posterior Tibial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LR4DZ	Occlusion of Right Posterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LR4ZZ	Occlusion of Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04LS0CZ	Occlusion of Left Posterior Tibial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LS0DZ	Occlusion of Left Posterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LS0ZZ	Occlusion of Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04LS3CZ	Occlusion of Left Posterior Tibial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LS3DZ	Occlusion of Left Posterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LS3ZZ	Occlusion of Left Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04LS4CZ	Occlusion of Left Posterior Tibial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LS4DZ	Occlusion of Left Posterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LS4ZZ	Occlusion of Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LT0CZ	Occlusion of Right Peroneal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LT0DZ	Occlusion of Right Peroneal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LT0ZZ	Occlusion of Right Peroneal Artery, Open Approach	PX	ICD-10-PCS
04LT3CZ	Occlusion of Right Peroneal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LT3DZ	Occlusion of Right Peroneal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LT3ZZ	Occlusion of Right Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04LT4CZ	Occlusion of Right Peroneal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LT4DZ	Occlusion of Right Peroneal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LT4ZZ	Occlusion of Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LU0CZ	Occlusion of Left Peroneal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LU0DZ	Occlusion of Left Peroneal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LU0ZZ	Occlusion of Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
04LU3CZ	Occlusion of Left Peroneal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LU3DZ	Occlusion of Left Peroneal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LU3ZZ	Occlusion of Left Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04LU4CZ	Occlusion of Left Peroneal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LU4DZ	Occlusion of Left Peroneal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LU4ZZ	Occlusion of Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LV0CZ	Occlusion of Right Foot Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LV0DZ	Occlusion of Right Foot Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LV0ZZ	Occlusion of Right Foot Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04LV3CZ	Occlusion of Right Foot Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LV3DZ	Occlusion of Right Foot Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LV3ZZ	Occlusion of Right Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04LV4CZ	Occlusion of Right Foot Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LV4DZ	Occlusion of Right Foot Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LV4ZZ	Occlusion of Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LW0CZ	Occlusion of Left Foot Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LW0DZ	Occlusion of Left Foot Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LW0ZZ	Occlusion of Left Foot Artery, Open Approach	PX	ICD-10-PCS
04LW3CZ	Occlusion of Left Foot Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LW3DZ	Occlusion of Left Foot Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LW3ZZ	Occlusion of Left Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04LW4CZ	Occlusion of Left Foot Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LW4DZ	Occlusion of Left Foot Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LW4ZZ	Occlusion of Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LY0CZ	Occlusion of Lower Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04LY0DZ	Occlusion of Lower Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04LY0ZZ	Occlusion of Lower Artery, Open Approach	PX	ICD-10-PCS
04LY3CZ	Occlusion of Lower Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LY3DZ	Occlusion of Lower Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04LY3ZZ	Occlusion of Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04LY4CZ	Occlusion of Lower Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LY4DZ	Occlusion of Lower Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04LY4ZZ	Occlusion of Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04N00ZZ	Release Abdominal Aorta, Open Approach	PX	ICD-10-PCS
04N03ZZ	Release Abdominal Aorta, Percutaneous Approach	PX	ICD-10-PCS
04N04ZZ	Release Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04N10ZZ	Release Celiac Artery, Open Approach	PX	ICD-10-PCS
04N13ZZ	Release Celiac Artery, Percutaneous Approach	PX	ICD-10-PCS
04N14ZZ	Release Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04N20ZZ	Release Gastric Artery, Open Approach	PX	ICD-10-PCS
04N23ZZ	Release Gastric Artery, Percutaneous Approach	PX	ICD-10-PCS
04N24ZZ	Release Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04N30ZZ	Release Hepatic Artery, Open Approach	PX	ICD-10-PCS
04N33ZZ	Release Hepatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04N34ZZ	Release Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04N40ZZ	Release Splenic Artery, Open Approach	PX	ICD-10-PCS
04N43ZZ	Release Splenic Artery, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
04N44ZZ	Release Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04N50ZZ	Release Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04N53ZZ	Release Superior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04N54ZZ	Release Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04N60ZZ	Release Right Colic Artery, Open Approach	PX	ICD-10-PCS
04N63ZZ	Release Right Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04N64ZZ	Release Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04N70ZZ	Release Left Colic Artery, Open Approach	PX	ICD-10-PCS
04N73ZZ	Release Left Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04N74ZZ	Release Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04N80ZZ	Release Middle Colic Artery, Open Approach	PX	ICD-10-PCS
04N83ZZ	Release Middle Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04N84ZZ	Release Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04N90ZZ	Release Right Renal Artery, Open Approach	PX	ICD-10-PCS
04N93ZZ	Release Right Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04N94ZZ	Release Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NA0ZZ	Release Left Renal Artery, Open Approach	PX	ICD-10-PCS
04NA3ZZ	Release Left Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04NA4ZZ	Release Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NB0ZZ	Release Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04NB3ZZ	Release Inferior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04NB4ZZ	Release Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NC0ZZ	Release Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04NC3ZZ	Release Right Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04NC4ZZ	Release Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04ND0ZZ	Release Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04ND3ZZ	Release Left Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04ND4ZZ	Release Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NE0ZZ	Release Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04NE3ZZ	Release Right Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04NE4ZZ	Release Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NF0ZZ	Release Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04NF3ZZ	Release Left Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04NF4ZZ	Release Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NH0ZZ	Release Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
04NH3ZZ	Release Right External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04NH4ZZ	Release Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NJ0ZZ	Release Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
04NJ3ZZ	Release Left External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04NJ4ZZ	Release Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NK0ZZ	Release Right Femoral Artery, Open Approach	PX	ICD-10-PCS
04NK3ZZ	Release Right Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04NK4ZZ	Release Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NL0ZZ	Release Left Femoral Artery, Open Approach	PX	ICD-10-PCS
04NL3ZZ	Release Left Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04NL4ZZ	Release Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NM0ZZ	Release Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
04NM3ZZ	Release Right Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04NM4ZZ	Release Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NN0ZZ	Release Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
04NN3ZZ	Release Left Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04NN4ZZ	Release Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NP0ZZ	Release Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04NP3ZZ	Release Right Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04NP4ZZ	Release Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NQ0ZZ	Release Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04NQ3ZZ	Release Left Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04NQ4ZZ	Release Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NR0ZZ	Release Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04NR3ZZ	Release Right Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04NR4ZZ	Release Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NS0ZZ	Release Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04NS3ZZ	Release Left Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04NS4ZZ	Release Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NT0ZZ	Release Right Peroneal Artery, Open Approach	PX	ICD-10-PCS
04NT3ZZ	Release Right Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04NT4ZZ	Release Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NU0ZZ	Release Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
04NU3ZZ	Release Left Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04NU4ZZ	Release Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NV0ZZ	Release Right Foot Artery, Open Approach	PX	ICD-10-PCS
04NV3ZZ	Release Right Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04NV4ZZ	Release Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NW0ZZ	Release Left Foot Artery, Open Approach	PX	ICD-10-PCS
04NW3ZZ	Release Left Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04NW4ZZ	Release Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04NY0ZZ	Release Lower Artery, Open Approach	PX	ICD-10-PCS
04NY3ZZ	Release Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04NY4ZZ	Release Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04PY00Z	Removal of Drainage Device from Lower Artery, Open Approach	PX	ICD-10-PCS
04PY02Z	Removal of Monitoring Device from Lower Artery, Open Approach	PX	ICD-10-PCS
04PY03Z	Removal of Infusion Device from Lower Artery, Open Approach	PX	ICD-10-PCS
04PY07Z	Removal of Autologous Tissue Substitute from Lower Artery, Open Approach	PX	ICD-10-PCS
04PY0CZ	Removal of Extraluminal Device from Lower Artery, Open Approach	PX	ICD-10-PCS
04PY0DZ	Removal of Intraluminal Device from Lower Artery, Open Approach	PX	ICD-10-PCS
04PY0JZ	Removal of Synthetic Substitute from Lower Artery, Open Approach	PX	ICD-10-PCS
04PY0KZ	Removal of Nonautologous Tissue Substitute from Lower Artery, Open Approach	PX	ICD-10-PCS
04PY0YZ	Removal of Other Device from Lower Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04PY37Z	Removal of Autologous Tissue Substitute from Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04PY3CZ	Removal of Extraluminal Device from Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04PY3JZ	Removal of Synthetic Substitute from Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04PY3KZ	Removal of Nonautologous Tissue Substitute from Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04PY40Z	Removal of Drainage Device from Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04PY42Z	Removal of Monitoring Device from Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04PY43Z	Removal of Infusion Device from Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04PY47Z	Removal of Autologous Tissue Substitute from Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04PY4CZ	Removal of Extraluminal Device from Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04PY4DZ	Removal of Intraluminal Device from Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04PY4JZ	Removal of Synthetic Substitute from Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04PY4KZ	Removal of Nonautologous Tissue Substitute from Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04PY4YZ	Removal of Other Device from Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04Q00ZZ	Repair Abdominal Aorta, Open Approach	PX	ICD-10-PCS
04Q03ZZ	Repair Abdominal Aorta, Percutaneous Approach	PX	ICD-10-PCS
04Q04ZZ	Repair Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04Q10ZZ	Repair Celiac Artery, Open Approach	PX	ICD-10-PCS
04Q13ZZ	Repair Celiac Artery, Percutaneous Approach	PX	ICD-10-PCS
04Q14ZZ	Repair Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04Q20ZZ	Repair Gastric Artery, Open Approach	PX	ICD-10-PCS
04Q23ZZ	Repair Gastric Artery, Percutaneous Approach	PX	ICD-10-PCS
04Q24ZZ	Repair Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04Q30ZZ	Repair Hepatic Artery, Open Approach	PX	ICD-10-PCS
04Q33ZZ	Repair Hepatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04Q34ZZ	Repair Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04Q40ZZ	Repair Splenic Artery, Open Approach	PX	ICD-10-PCS
04Q43ZZ	Repair Splenic Artery, Percutaneous Approach	PX	ICD-10-PCS
04Q44ZZ	Repair Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04Q50ZZ	Repair Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04Q53ZZ	Repair Superior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04Q54ZZ	Repair Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04Q60ZZ	Repair Right Colic Artery, Open Approach	PX	ICD-10-PCS
04Q63ZZ	Repair Right Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04Q64ZZ	Repair Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04Q70ZZ	Repair Left Colic Artery, Open Approach	PX	ICD-10-PCS
04Q73ZZ	Repair Left Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04Q74ZZ	Repair Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04Q80ZZ	Repair Middle Colic Artery, Open Approach	PX	ICD-10-PCS
04Q83ZZ	Repair Middle Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04Q84ZZ	Repair Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04Q90ZZ	Repair Right Renal Artery, Open Approach	PX	ICD-10-PCS
04Q93ZZ	Repair Right Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04Q94ZZ	Repair Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QA0ZZ	Repair Left Renal Artery, Open Approach	PX	ICD-10-PCS
04QA3ZZ	Repair Left Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04QA4ZZ	Repair Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QB0ZZ	Repair Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04QB3ZZ	Repair Inferior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04QB4ZZ	Repair Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QC0ZZ	Repair Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04QC3ZZ	Repair Right Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04QC4ZZ	Repair Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QD0ZZ	Repair Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04QD3ZZ	Repair Left Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04QD4ZZ	Repair Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QE0ZZ	Repair Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04QE3ZZ	Repair Right Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04QE4ZZ	Repair Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QF0ZZ	Repair Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04QF3ZZ	Repair Left Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04QF4ZZ	Repair Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QH0ZZ	Repair Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
04QH3ZZ	Repair Right External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04QH4ZZ	Repair Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QJ0ZZ	Repair Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
04QJ3ZZ	Repair Left External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04QJ4ZZ	Repair Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QK0ZZ	Repair Right Femoral Artery, Open Approach	PX	ICD-10-PCS
04QK3ZZ	Repair Right Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04QK4ZZ	Repair Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QL0ZZ	Repair Left Femoral Artery, Open Approach	PX	ICD-10-PCS
04QL3ZZ	Repair Left Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04QL4ZZ	Repair Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QM0ZZ	Repair Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
04QM3ZZ	Repair Right Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04QM4ZZ	Repair Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QN0ZZ	Repair Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
04QN3ZZ	Repair Left Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04QN4ZZ	Repair Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04QP0ZZ	Repair Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04QP3ZZ	Repair Right Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04QP4ZZ	Repair Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QQ0ZZ	Repair Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04QQ3ZZ	Repair Left Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04QQ4ZZ	Repair Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QR0ZZ	Repair Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04QR3ZZ	Repair Right Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04QR4ZZ	Repair Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QS0ZZ	Repair Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04QS3ZZ	Repair Left Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04QS4ZZ	Repair Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QT0ZZ	Repair Right Peroneal Artery, Open Approach	PX	ICD-10-PCS
04QT3ZZ	Repair Right Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04QT4ZZ	Repair Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QU0ZZ	Repair Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
04QU3ZZ	Repair Left Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04QU4ZZ	Repair Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QV0ZZ	Repair Right Foot Artery, Open Approach	PX	ICD-10-PCS
04QV3ZZ	Repair Right Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04QV4ZZ	Repair Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QW0ZZ	Repair Left Foot Artery, Open Approach	PX	ICD-10-PCS
04QW3ZZ	Repair Left Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04QW4ZZ	Repair Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04QY0ZZ	Repair Lower Artery, Open Approach	PX	ICD-10-PCS
04QY3ZZ	Repair Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04QY4ZZ	Repair Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R007Z	Replacement of Abdominal Aorta with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R00JZ	Replacement of Abdominal Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04R00KZ	Replacement of Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R047Z	Replacement of Abdominal Aorta with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R04JZ	Replacement of Abdominal Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R04KZ	Replacement of Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R107Z	Replacement of Celiac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R10JZ	Replacement of Celiac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04R10KZ	Replacement of Celiac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R147Z	Replacement of Celiac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04R14JZ	Replacement of Celiac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R14KZ	Replacement of Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R207Z	Replacement of Gastric Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R20JZ	Replacement of Gastric Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04R20KZ	Replacement of Gastric Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R247Z	Replacement of Gastric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R24JZ	Replacement of Gastric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R24KZ	Replacement of Gastric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R307Z	Replacement of Hepatic Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R30JZ	Replacement of Hepatic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04R30KZ	Replacement of Hepatic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R347Z	Replacement of Hepatic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R34JZ	Replacement of Hepatic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R34KZ	Replacement of Hepatic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R407Z	Replacement of Splenic Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R40JZ	Replacement of Splenic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04R40KZ	Replacement of Splenic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R447Z	Replacement of Splenic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R44JZ	Replacement of Splenic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R44KZ	Replacement of Splenic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R507Z	Replacement of Superior Mesenteric Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R50JZ	Replacement of Superior Mesenteric Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04R50KZ	Replacement of Superior Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R547Z	Replacement of Superior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04R54JZ	Replacement of Superior Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R54KZ	Replacement of Superior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R607Z	Replacement of Right Colic Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R60JZ	Replacement of Right Colic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04R60KZ	Replacement of Right Colic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R647Z	Replacement of Right Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R64JZ	Replacement of Right Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R64KZ	Replacement of Right Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R707Z	Replacement of Left Colic Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R70JZ	Replacement of Left Colic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04R70KZ	Replacement of Left Colic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R747Z	Replacement of Left Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R74JZ	Replacement of Left Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R74KZ	Replacement of Left Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R807Z	Replacement of Middle Colic Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R80JZ	Replacement of Middle Colic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04R80KZ	Replacement of Middle Colic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R847Z	Replacement of Middle Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R84JZ	Replacement of Middle Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R84KZ	Replacement of Middle Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R907Z	Replacement of Right Renal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R90JZ	Replacement of Right Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04R90KZ	Replacement of Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04R947Z	Replacement of Right Renal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04R94JZ	Replacement of Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04R94KZ	Replacement of Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RA07Z	Replacement of Left Renal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RA0JZ	Replacement of Left Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RA0KZ	Replacement of Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RA47Z	Replacement of Left Renal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RA4JZ	Replacement of Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RA4KZ	Replacement of Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RB07Z	Replacement of Inferior Mesenteric Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RB0JZ	Replacement of Inferior Mesenteric Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RB0KZ	Replacement of Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RB47Z	Replacement of Inferior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RB4JZ	Replacement of Inferior Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RB4KZ	Replacement of Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RC07Z	Replacement of Right Common Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RC0JZ	Replacement of Right Common Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RC0KZ	Replacement of Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RC47Z	Replacement of Right Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RC4JZ	Replacement of Right Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RC4KZ	Replacement of Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RD07Z	Replacement of Left Common Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RD0JZ	Replacement of Left Common Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RD0KZ	Replacement of Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04RD47Z	Replacement of Left Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RD4JZ	Replacement of Left Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RD4KZ	Replacement of Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RE07Z	Replacement of Right Internal Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RE0JZ	Replacement of Right Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RE0KZ	Replacement of Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RE47Z	Replacement of Right Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RE4JZ	Replacement of Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RE4KZ	Replacement of Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RF07Z	Replacement of Left Internal Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RF0JZ	Replacement of Left Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RF0KZ	Replacement of Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RF47Z	Replacement of Left Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RF4JZ	Replacement of Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RF4KZ	Replacement of Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RH07Z	Replacement of Right External Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RH0JZ	Replacement of Right External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RH0KZ	Replacement of Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RH47Z	Replacement of Right External Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RH4JZ	Replacement of Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RH4KZ	Replacement of Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RJ07Z	Replacement of Left External Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04RJ0JZ	Replacement of Left External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RJ0KZ	Replacement of Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RJ47Z	Replacement of Left External Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RJ4JZ	Replacement of Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RJ4KZ	Replacement of Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RK07Z	Replacement of Right Femoral Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RK0JZ	Replacement of Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RK0KZ	Replacement of Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RK47Z	Replacement of Right Femoral Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RK4JZ	Replacement of Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RK4KZ	Replacement of Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RL07Z	Replacement of Left Femoral Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RL0JZ	Replacement of Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RL0KZ	Replacement of Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RL47Z	Replacement of Left Femoral Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RL4JZ	Replacement of Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RL4KZ	Replacement of Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RM07Z	Replacement of Right Popliteal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RM0JZ	Replacement of Right Popliteal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RM0KZ	Replacement of Right Popliteal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RM47Z	Replacement of Right Popliteal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RM4JZ	Replacement of Right Popliteal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RM4KZ	Replacement of Right Popliteal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RN07Z	Replacement of Left Popliteal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04RN0JZ	Replacement of Left Popliteal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RN0KZ	Replacement of Left Popliteal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RN47Z	Replacement of Left Popliteal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RN4JZ	Replacement of Left Popliteal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RN4KZ	Replacement of Left Popliteal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RP07Z	Replacement of Right Anterior Tibial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RP0JZ	Replacement of Right Anterior Tibial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RP0KZ	Replacement of Right Anterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RP47Z	Replacement of Right Anterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RP4JZ	Replacement of Right Anterior Tibial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RP4KZ	Replacement of Right Anterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RQ07Z	Replacement of Left Anterior Tibial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RQ0JZ	Replacement of Left Anterior Tibial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RQ0KZ	Replacement of Left Anterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RQ47Z	Replacement of Left Anterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RQ4JZ	Replacement of Left Anterior Tibial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RQ4KZ	Replacement of Left Anterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RR07Z	Replacement of Right Posterior Tibial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RR0JZ	Replacement of Right Posterior Tibial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RR0KZ	Replacement of Right Posterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RR47Z	Replacement of Right Posterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RR4JZ	Replacement of Right Posterior Tibial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RR4KZ	Replacement of Right Posterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04RS07Z	Replacement of Left Posterior Tibial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RS0JZ	Replacement of Left Posterior Tibial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RS0KZ	Replacement of Left Posterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RS47Z	Replacement of Left Posterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RS4JZ	Replacement of Left Posterior Tibial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RS4KZ	Replacement of Left Posterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RT07Z	Replacement of Right Peroneal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RT0JZ	Replacement of Right Peroneal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RT0KZ	Replacement of Right Peroneal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RT47Z	Replacement of Right Peroneal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RT4JZ	Replacement of Right Peroneal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RT4KZ	Replacement of Right Peroneal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RU07Z	Replacement of Left Peroneal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RU0JZ	Replacement of Left Peroneal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RU0KZ	Replacement of Left Peroneal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RU47Z	Replacement of Left Peroneal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RU4JZ	Replacement of Left Peroneal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RU4KZ	Replacement of Left Peroneal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RV07Z	Replacement of Right Foot Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RV0JZ	Replacement of Right Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RV0KZ	Replacement of Right Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RV47Z	Replacement of Right Foot Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RV4JZ	Replacement of Right Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RV4KZ	Replacement of Right Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04RW07Z	Replacement of Left Foot Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RW0JZ	Replacement of Left Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RW0KZ	Replacement of Left Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RW47Z	Replacement of Left Foot Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RW4JZ	Replacement of Left Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RW4KZ	Replacement of Left Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RY07Z	Replacement of Lower Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RY0JZ	Replacement of Lower Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04RY0KZ	Replacement of Lower Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04RY47Z	Replacement of Lower Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RY4JZ	Replacement of Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04RY4KZ	Replacement of Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04S00ZZ	Reposition Abdominal Aorta, Open Approach	PX	ICD-10-PCS
04S03ZZ	Reposition Abdominal Aorta, Percutaneous Approach	PX	ICD-10-PCS
04S04ZZ	Reposition Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04S10ZZ	Reposition Celiac Artery, Open Approach	PX	ICD-10-PCS
04S13ZZ	Reposition Celiac Artery, Percutaneous Approach	PX	ICD-10-PCS
04S14ZZ	Reposition Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04S20ZZ	Reposition Gastric Artery, Open Approach	PX	ICD-10-PCS
04S23ZZ	Reposition Gastric Artery, Percutaneous Approach	PX	ICD-10-PCS
04S24ZZ	Reposition Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04S30ZZ	Reposition Hepatic Artery, Open Approach	PX	ICD-10-PCS
04S33ZZ	Reposition Hepatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04S34ZZ	Reposition Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04S40ZZ	Reposition Splenic Artery, Open Approach	PX	ICD-10-PCS
04S43ZZ	Reposition Splenic Artery, Percutaneous Approach	PX	ICD-10-PCS
04S44ZZ	Reposition Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04S50ZZ	Reposition Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04S53ZZ	Reposition Superior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04S54ZZ	Reposition Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04S60ZZ	Reposition Right Colic Artery, Open Approach	PX	ICD-10-PCS
04S63ZZ	Reposition Right Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04S64ZZ	Reposition Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04S70ZZ	Reposition Left Colic Artery, Open Approach	PX	ICD-10-PCS
04S73ZZ	Reposition Left Colic Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04S74ZZ	Reposition Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04S80ZZ	Reposition Middle Colic Artery, Open Approach	PX	ICD-10-PCS
04S83ZZ	Reposition Middle Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04S84ZZ	Reposition Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04S90ZZ	Reposition Right Renal Artery, Open Approach	PX	ICD-10-PCS
04S93ZZ	Reposition Right Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04S94ZZ	Reposition Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SA0ZZ	Reposition Left Renal Artery, Open Approach	PX	ICD-10-PCS
04SA3ZZ	Reposition Left Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04SA4ZZ	Reposition Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SB0ZZ	Reposition Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04SB3ZZ	Reposition Inferior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04SB4ZZ	Reposition Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SC0ZZ	Reposition Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04SC3ZZ	Reposition Right Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04SC4ZZ	Reposition Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SD0ZZ	Reposition Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04SD3ZZ	Reposition Left Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04SD4ZZ	Reposition Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SE0ZZ	Reposition Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04SE3ZZ	Reposition Right Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04SE4ZZ	Reposition Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SF0ZZ	Reposition Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04SF3ZZ	Reposition Left Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04SF4ZZ	Reposition Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SH0ZZ	Reposition Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
04SH3ZZ	Reposition Right External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04SH4ZZ	Reposition Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SJ0ZZ	Reposition Left External Iliac Artery, Open Approach	PX	ICD-10-PCS
04SJ3ZZ	Reposition Left External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04SJ4ZZ	Reposition Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SK0ZZ	Reposition Right Femoral Artery, Open Approach	PX	ICD-10-PCS
04SK3ZZ	Reposition Right Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04SK4ZZ	Reposition Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SL0ZZ	Reposition Left Femoral Artery, Open Approach	PX	ICD-10-PCS
04SL3ZZ	Reposition Left Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04SL4ZZ	Reposition Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SM0ZZ	Reposition Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
04SM3ZZ	Reposition Right Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04SM4ZZ	Reposition Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SN0ZZ	Reposition Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
04SN3ZZ	Reposition Left Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04SN4ZZ	Reposition Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SP0ZZ	Reposition Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04SP3ZZ	Reposition Right Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
04SP4ZZ	Reposition Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SQ0ZZ	Reposition Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04SQ3ZZ	Reposition Left Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04SQ4ZZ	Reposition Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SR0ZZ	Reposition Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04SR3ZZ	Reposition Right Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04SR4ZZ	Reposition Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SS0ZZ	Reposition Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04SS3ZZ	Reposition Left Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04SS4ZZ	Reposition Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04ST0ZZ	Reposition Right Peroneal Artery, Open Approach	PX	ICD-10-PCS
04ST3ZZ	Reposition Right Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04ST4ZZ	Reposition Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SU0ZZ	Reposition Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
04SU3ZZ	Reposition Left Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04SU4ZZ	Reposition Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SV0ZZ	Reposition Right Foot Artery, Open Approach	PX	ICD-10-PCS
04SV3ZZ	Reposition Right Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04SV4ZZ	Reposition Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SW0ZZ	Reposition Left Foot Artery, Open Approach	PX	ICD-10-PCS
04SW3ZZ	Reposition Left Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04SW4ZZ	Reposition Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04SY0ZZ	Reposition Lower Artery, Open Approach	PX	ICD-10-PCS
04SY3ZZ	Reposition Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04SY4ZZ	Reposition Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U007Z	Supplement Abdominal Aorta with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U00JZ	Supplement Abdominal Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04U00KZ	Supplement Abdominal Aorta with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U037Z	Supplement Abdominal Aorta with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U03JZ	Supplement Abdominal Aorta with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U03KZ	Supplement Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U047Z	Supplement Abdominal Aorta with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U04JZ	Supplement Abdominal Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U04KZ	Supplement Abdominal Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U107Z	Supplement Celiac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U10JZ	Supplement Celiac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04U10KZ	Supplement Celiac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U137Z	Supplement Celiac Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U13JZ	Supplement Celiac Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U13KZ	Supplement Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U147Z	Supplement Celiac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U14JZ	Supplement Celiac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U14KZ	Supplement Celiac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U207Z	Supplement Gastric Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U20JZ	Supplement Gastric Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04U20KZ	Supplement Gastric Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U237Z	Supplement Gastric Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U23JZ	Supplement Gastric Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U23KZ	Supplement Gastric Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U247Z	Supplement Gastric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U24JZ	Supplement Gastric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U24KZ	Supplement Gastric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U307Z	Supplement Hepatic Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U30JZ	Supplement Hepatic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04U30KZ	Supplement Hepatic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U337Z	Supplement Hepatic Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U33JZ	Supplement Hepatic Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U33KZ	Supplement Hepatic Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U347Z	Supplement Hepatic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U34JZ	Supplement Hepatic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U34KZ	Supplement Hepatic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U407Z	Supplement Splenic Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U40JZ	Supplement Splenic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04U40KZ	Supplement Splenic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U437Z	Supplement Splenic Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U43JZ	Supplement Splenic Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U43KZ	Supplement Splenic Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U447Z	Supplement Splenic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U44JZ	Supplement Splenic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U44KZ	Supplement Splenic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U507Z	Supplement Superior Mesenteric Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U50JZ	Supplement Superior Mesenteric Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04U50KZ	Supplement Superior Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U537Z	Supplement Superior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U53JZ	Supplement Superior Mesenteric Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U53KZ	Supplement Superior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U547Z	Supplement Superior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U54JZ	Supplement Superior Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U54KZ	Supplement Superior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U607Z	Supplement Right Colic Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U60JZ	Supplement Right Colic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04U60KZ	Supplement Right Colic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U637Z	Supplement Right Colic Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U63JZ	Supplement Right Colic Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U63KZ	Supplement Right Colic Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U647Z	Supplement Right Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04U64JZ	Supplement Right Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U64KZ	Supplement Right Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U707Z	Supplement Left Colic Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U70JZ	Supplement Left Colic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04U70KZ	Supplement Left Colic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U737Z	Supplement Left Colic Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U73JZ	Supplement Left Colic Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U73KZ	Supplement Left Colic Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U747Z	Supplement Left Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U74JZ	Supplement Left Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U74KZ	Supplement Left Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U807Z	Supplement Middle Colic Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U80JZ	Supplement Middle Colic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04U80KZ	Supplement Middle Colic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U837Z	Supplement Middle Colic Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U83JZ	Supplement Middle Colic Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U83KZ	Supplement Middle Colic Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U847Z	Supplement Middle Colic Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U84JZ	Supplement Middle Colic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U84KZ	Supplement Middle Colic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U907Z	Supplement Right Renal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U90JZ	Supplement Right Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04U90KZ	Supplement Right Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04U937Z	Supplement Right Renal Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U93JZ	Supplement Right Renal Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04U93KZ	Supplement Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04U947Z	Supplement Right Renal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U94JZ	Supplement Right Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04U94KZ	Supplement Right Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UA07Z	Supplement Left Renal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UA0JZ	Supplement Left Renal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UA0KZ	Supplement Left Renal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UA37Z	Supplement Left Renal Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UA3JZ	Supplement Left Renal Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UA3KZ	Supplement Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UA47Z	Supplement Left Renal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UA4JZ	Supplement Left Renal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UA4KZ	Supplement Left Renal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UB07Z	Supplement Inferior Mesenteric Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UB0JZ	Supplement Inferior Mesenteric Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UB0KZ	Supplement Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UB37Z	Supplement Inferior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UB3JZ	Supplement Inferior Mesenteric Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UB3KZ	Supplement Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UB47Z	Supplement Inferior Mesenteric Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UB4JZ	Supplement Inferior Mesenteric Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UB4KZ	Supplement Inferior Mesenteric Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UC07Z	Supplement Right Common Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04UC0JZ	Supplement Right Common Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UC0KZ	Supplement Right Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UC37Z	Supplement Right Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UC3JZ	Supplement Right Common Iliac Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UC3KZ	Supplement Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UC47Z	Supplement Right Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UC4JZ	Supplement Right Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UC4KZ	Supplement Right Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UD07Z	Supplement Left Common Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UD0JZ	Supplement Left Common Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UD0KZ	Supplement Left Common Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UD37Z	Supplement Left Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UD3JZ	Supplement Left Common Iliac Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UD3KZ	Supplement Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UD47Z	Supplement Left Common Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UD4JZ	Supplement Left Common Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UD4KZ	Supplement Left Common Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UE07Z	Supplement Right Internal Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UE0JZ	Supplement Right Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UE0KZ	Supplement Right Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UE37Z	Supplement Right Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UE3JZ	Supplement Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UE3KZ	Supplement Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
04UE47Z	Supplement Right Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UE4JZ	Supplement Right Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UE4KZ	Supplement Right Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UF07Z	Supplement Left Internal Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UF0JZ	Supplement Left Internal Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UF0KZ	Supplement Left Internal Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UF37Z	Supplement Left Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UF3JZ	Supplement Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UF3KZ	Supplement Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UF47Z	Supplement Left Internal Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UF4JZ	Supplement Left Internal Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UF4KZ	Supplement Left Internal Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UH07Z	Supplement Right External Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UH0JZ	Supplement Right External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UH0KZ	Supplement Right External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UH37Z	Supplement Right External Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UH3JZ	Supplement Right External Iliac Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UH3KZ	Supplement Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UH47Z	Supplement Right External Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UH4JZ	Supplement Right External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UH4KZ	Supplement Right External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UJ07Z	Supplement Left External Iliac Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UJ0JZ	Supplement Left External Iliac Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
04UJ0KZ	Supplement Left External Iliac Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UJ37Z	Supplement Left External Iliac Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UJ3JZ	Supplement Left External Iliac Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UJ3KZ	Supplement Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UJ47Z	Supplement Left External Iliac Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UJ4JZ	Supplement Left External Iliac Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UJ4KZ	Supplement Left External Iliac Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UK07Z	Supplement Right Femoral Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UK0JZ	Supplement Right Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UK0KZ	Supplement Right Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UK37Z	Supplement Right Femoral Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UK3JZ	Supplement Right Femoral Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UK3KZ	Supplement Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UK47Z	Supplement Right Femoral Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UK4JZ	Supplement Right Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UK4KZ	Supplement Right Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UL07Z	Supplement Left Femoral Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UL0JZ	Supplement Left Femoral Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UL0KZ	Supplement Left Femoral Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UL37Z	Supplement Left Femoral Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UL3JZ	Supplement Left Femoral Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UL3KZ	Supplement Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UL47Z	Supplement Left Femoral Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
04UL4JZ	Supplement Left Femoral Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UL4KZ	Supplement Left Femoral Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UM07Z	Supplement Right Popliteal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UM0JZ	Supplement Right Popliteal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UM0KZ	Supplement Right Popliteal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UM37Z	Supplement Right Popliteal Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UM3JZ	Supplement Right Popliteal Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UM3KZ	Supplement Right Popliteal Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UM47Z	Supplement Right Popliteal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UM4JZ	Supplement Right Popliteal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UM4KZ	Supplement Right Popliteal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UN07Z	Supplement Left Popliteal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UN0JZ	Supplement Left Popliteal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UN0KZ	Supplement Left Popliteal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UN37Z	Supplement Left Popliteal Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UN3JZ	Supplement Left Popliteal Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UN3KZ	Supplement Left Popliteal Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UN47Z	Supplement Left Popliteal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UN4JZ	Supplement Left Popliteal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UN4KZ	Supplement Left Popliteal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UP07Z	Supplement Right Anterior Tibial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UP0JZ	Supplement Right Anterior Tibial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UP0KZ	Supplement Right Anterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04UP37Z	Supplement Right Anterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UP3JZ	Supplement Right Anterior Tibial Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UP3KZ	Supplement Right Anterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UP47Z	Supplement Right Anterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UP4JZ	Supplement Right Anterior Tibial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UP4KZ	Supplement Right Anterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UQ07Z	Supplement Left Anterior Tibial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UQ0JZ	Supplement Left Anterior Tibial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UQ0KZ	Supplement Left Anterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UQ37Z	Supplement Left Anterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UQ3JZ	Supplement Left Anterior Tibial Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UQ3KZ	Supplement Left Anterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UQ47Z	Supplement Left Anterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UQ4JZ	Supplement Left Anterior Tibial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UQ4KZ	Supplement Left Anterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UR07Z	Supplement Right Posterior Tibial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UR0JZ	Supplement Right Posterior Tibial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UR0KZ	Supplement Right Posterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UR37Z	Supplement Right Posterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UR3JZ	Supplement Right Posterior Tibial Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UR3KZ	Supplement Right Posterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UR47Z	Supplement Right Posterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04UR4JZ	Supplement Right Posterior Tibial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UR4KZ	Supplement Right Posterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04US07Z	Supplement Left Posterior Tibial Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04US0JZ	Supplement Left Posterior Tibial Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04US0KZ	Supplement Left Posterior Tibial Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04US37Z	Supplement Left Posterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04US3JZ	Supplement Left Posterior Tibial Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04US3KZ	Supplement Left Posterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04US47Z	Supplement Left Posterior Tibial Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04US4JZ	Supplement Left Posterior Tibial Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04US4KZ	Supplement Left Posterior Tibial Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UT07Z	Supplement Right Peroneal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UT0JZ	Supplement Right Peroneal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UT0KZ	Supplement Right Peroneal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UT37Z	Supplement Right Peroneal Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UT3JZ	Supplement Right Peroneal Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UT3KZ	Supplement Right Peroneal Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UT47Z	Supplement Right Peroneal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UT4JZ	Supplement Right Peroneal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UT4KZ	Supplement Right Peroneal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UU07Z	Supplement Left Peroneal Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UU0JZ	Supplement Left Peroneal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UU0KZ	Supplement Left Peroneal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04UU37Z	Supplement Left Peroneal Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UU3JZ	Supplement Left Peroneal Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UU3KZ	Supplement Left Peroneal Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UU47Z	Supplement Left Peroneal Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UU4JZ	Supplement Left Peroneal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UU4KZ	Supplement Left Peroneal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UV07Z	Supplement Right Foot Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UV0JZ	Supplement Right Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UV0KZ	Supplement Right Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UV37Z	Supplement Right Foot Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UV3JZ	Supplement Right Foot Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UV3KZ	Supplement Right Foot Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UV47Z	Supplement Right Foot Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UV4JZ	Supplement Right Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UV4KZ	Supplement Right Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UW07Z	Supplement Left Foot Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UW0JZ	Supplement Left Foot Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UW0KZ	Supplement Left Foot Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UW37Z	Supplement Left Foot Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UW3JZ	Supplement Left Foot Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UW3KZ	Supplement Left Foot Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UW47Z	Supplement Left Foot Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UW4JZ	Supplement Left Foot Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UW4KZ	Supplement Left Foot Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UY07Z	Supplement Lower Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04UY0JZ	Supplement Lower Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
04UY0KZ	Supplement Lower Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
04UY37Z	Supplement Lower Artery with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UY3JZ	Supplement Lower Artery with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UY3KZ	Supplement Lower Artery with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
04UY47Z	Supplement Lower Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UY4JZ	Supplement Lower Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04UY4KZ	Supplement Lower Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V00C6	Restriction of Abdominal Aorta, Bifurcation, with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V00CZ	Restriction of Abdominal Aorta with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V00D6	Restriction of Abdominal Aorta, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V00DJ	Restriction of Abdominal Aorta with Intraluminal Device, Temporary, Open Approach	PX	ICD-10-PCS
04V00DZ	Restriction of Abdominal Aorta with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V00E6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Open Approach	PX	ICD-10-PCS
04V00EZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Open Approach	PX	ICD-10-PCS
04V00F6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Open Approach	PX	ICD-10-PCS
04V00FZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Open Approach	PX	ICD-10-PCS
04V00Z6	Restriction of Abdominal Aorta, Bifurcation, Open Approach	PX	ICD-10-PCS
04V00ZZ	Restriction of Abdominal Aorta, Open Approach	PX	ICD-10-PCS
04V03C6	Restriction of Abdominal Aorta, Bifurcation, with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V03CZ	Restriction of Abdominal Aorta with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V03D6	Restriction of Abdominal Aorta, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V03DZ	Restriction of Abdominal Aorta with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V03E6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Approach	PX	ICD-10-PCS
04V03EZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04V03F6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
04V03FZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
04V03Z6	Restriction of Abdominal Aorta, Bifurcation, Percutaneous Approach	PX	ICD-10-PCS
04V03ZZ	Restriction of Abdominal Aorta, Percutaneous Approach	PX	ICD-10-PCS
04V04C6	Restriction of Abdominal Aorta, Bifurcation, with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V04CZ	Restriction of Abdominal Aorta with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V04D6	Restriction of Abdominal Aorta, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V04DJ	Restriction of Abdominal Aorta with Intraluminal Device, Temporary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V04DZ	Restriction of Abdominal Aorta with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V04E6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V04EZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V04F6	Restriction of Abdominal Aorta, Bifurcation, with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V04FZ	Restriction of Abdominal Aorta with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V04Z6	Restriction of Abdominal Aorta, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V04ZZ	Restriction of Abdominal Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V10CZ	Restriction of Celiac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V10DZ	Restriction of Celiac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V10ZZ	Restriction of Celiac Artery, Open Approach	PX	ICD-10-PCS
04V13CZ	Restriction of Celiac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V13DZ	Restriction of Celiac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V13ZZ	Restriction of Celiac Artery, Percutaneous Approach	PX	ICD-10-PCS
04V14CZ	Restriction of Celiac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V14DZ	Restriction of Celiac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V14ZZ	Restriction of Celiac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V20CZ	Restriction of Gastric Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V20DZ	Restriction of Gastric Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V20ZZ	Restriction of Gastric Artery, Open Approach	PX	ICD-10-PCS
04V23CZ	Restriction of Gastric Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V23DZ	Restriction of Gastric Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V23ZZ	Restriction of Gastric Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04V24CZ	Restriction of Gastric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V24DZ	Restriction of Gastric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V24ZZ	Restriction of Gastric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V30CZ	Restriction of Hepatic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V30DZ	Restriction of Hepatic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V30ZZ	Restriction of Hepatic Artery, Open Approach	PX	ICD-10-PCS
04V33CZ	Restriction of Hepatic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V33DZ	Restriction of Hepatic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V33ZZ	Restriction of Hepatic Artery, Percutaneous Approach	PX	ICD-10-PCS
04V34CZ	Restriction of Hepatic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V34DZ	Restriction of Hepatic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V34ZZ	Restriction of Hepatic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V40CZ	Restriction of Splenic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V40DZ	Restriction of Splenic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V40ZZ	Restriction of Splenic Artery, Open Approach	PX	ICD-10-PCS
04V43CZ	Restriction of Splenic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V43DZ	Restriction of Splenic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V43ZZ	Restriction of Splenic Artery, Percutaneous Approach	PX	ICD-10-PCS
04V44CZ	Restriction of Splenic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V44DZ	Restriction of Splenic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V44ZZ	Restriction of Splenic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V50CZ	Restriction of Superior Mesenteric Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V50DZ	Restriction of Superior Mesenteric Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V50ZZ	Restriction of Superior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04V53CZ	Restriction of Superior Mesenteric Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V53DZ	Restriction of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V53ZZ	Restriction of Superior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04V54CZ	Restriction of Superior Mesenteric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V54DZ	Restriction of Superior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V54ZZ	Restriction of Superior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V60CZ	Restriction of Right Colic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V60DZ	Restriction of Right Colic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V60ZZ	Restriction of Right Colic Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04V63CZ	Restriction of Right Colic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V63DZ	Restriction of Right Colic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V63ZZ	Restriction of Right Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04V64CZ	Restriction of Right Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V64DZ	Restriction of Right Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V64ZZ	Restriction of Right Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V70CZ	Restriction of Left Colic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V70DZ	Restriction of Left Colic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V70ZZ	Restriction of Left Colic Artery, Open Approach	PX	ICD-10-PCS
04V73CZ	Restriction of Left Colic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V73DZ	Restriction of Left Colic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V73ZZ	Restriction of Left Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04V74CZ	Restriction of Left Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V74DZ	Restriction of Left Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V74ZZ	Restriction of Left Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V80CZ	Restriction of Middle Colic Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V80DZ	Restriction of Middle Colic Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V80ZZ	Restriction of Middle Colic Artery, Open Approach	PX	ICD-10-PCS
04V83CZ	Restriction of Middle Colic Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V83DZ	Restriction of Middle Colic Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V83ZZ	Restriction of Middle Colic Artery, Percutaneous Approach	PX	ICD-10-PCS
04V84CZ	Restriction of Middle Colic Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V84DZ	Restriction of Middle Colic Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V84ZZ	Restriction of Middle Colic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V90CZ	Restriction of Right Renal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04V90DZ	Restriction of Right Renal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04V90ZZ	Restriction of Right Renal Artery, Open Approach	PX	ICD-10-PCS
04V93CZ	Restriction of Right Renal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V93DZ	Restriction of Right Renal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04V93ZZ	Restriction of Right Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04V94CZ	Restriction of Right Renal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04V94DZ	Restriction of Right Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04V94ZZ	Restriction of Right Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VA0CZ	Restriction of Left Renal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VA0DZ	Restriction of Left Renal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VA0ZZ	Restriction of Left Renal Artery, Open Approach	PX	ICD-10-PCS
04VA3CZ	Restriction of Left Renal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VA3DZ	Restriction of Left Renal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VA3ZZ	Restriction of Left Renal Artery, Percutaneous Approach	PX	ICD-10-PCS
04VA4CZ	Restriction of Left Renal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VA4DZ	Restriction of Left Renal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VA4ZZ	Restriction of Left Renal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VB0CZ	Restriction of Inferior Mesenteric Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VB0DZ	Restriction of Inferior Mesenteric Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VB0ZZ	Restriction of Inferior Mesenteric Artery, Open Approach	PX	ICD-10-PCS
04VB3CZ	Restriction of Inferior Mesenteric Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VB3DZ	Restriction of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VB3ZZ	Restriction of Inferior Mesenteric Artery, Percutaneous Approach	PX	ICD-10-PCS
04VB4CZ	Restriction of Inferior Mesenteric Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VB4DZ	Restriction of Inferior Mesenteric Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VB4ZZ	Restriction of Inferior Mesenteric Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VC0CZ	Restriction of Right Common Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VC0DZ	Restriction of Right Common Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VC0EZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Open Approach	PX	ICD-10-PCS
04VC0FZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Open Approach	PX	ICD-10-PCS
04VC0ZZ	Restriction of Right Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04VC3CZ	Restriction of Right Common Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VC3DZ	Restriction of Right Common Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04VC3EZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Approach	PX	ICD-10-PCS
04VC3FZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
04VC3ZZ	Restriction of Right Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04VC4CZ	Restriction of Right Common Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VC4DZ	Restriction of Right Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VC4EZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VC4FZ	Restriction of Right Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VC4ZZ	Restriction of Right Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VD0CZ	Restriction of Left Common Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VD0DZ	Restriction of Left Common Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VD0EZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Open Approach	PX	ICD-10-PCS
04VD0FZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Open Approach	PX	ICD-10-PCS
04VD0ZZ	Restriction of Left Common Iliac Artery, Open Approach	PX	ICD-10-PCS
04VD3CZ	Restriction of Left Common Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VD3DZ	Restriction of Left Common Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VD3EZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Approach	PX	ICD-10-PCS
04VD3FZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Approach	PX	ICD-10-PCS
04VD3ZZ	Restriction of Left Common Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04VD4CZ	Restriction of Left Common Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VD4DZ	Restriction of Left Common Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VD4EZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, One or Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VD4FZ	Restriction of Left Common Iliac Artery with Branched or Fenestrated Intraluminal Device, Three or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VD4ZZ	Restriction of Left Common Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VE0CZ	Restriction of Right Internal Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04VE0DZ	Restriction of Right Internal Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VE0ZZ	Restriction of Right Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04VE3CZ	Restriction of Right Internal Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VE3DZ	Restriction of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VE3ZZ	Restriction of Right Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04VE4CZ	Restriction of Right Internal Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VE4DZ	Restriction of Right Internal Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VE4ZZ	Restriction of Right Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VF0CZ	Restriction of Left Internal Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VF0DZ	Restriction of Left Internal Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VF0ZZ	Restriction of Left Internal Iliac Artery, Open Approach	PX	ICD-10-PCS
04VF3CZ	Restriction of Left Internal Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VF3DZ	Restriction of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VF3ZZ	Restriction of Left Internal Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04VF4CZ	Restriction of Left Internal Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VF4DZ	Restriction of Left Internal Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VF4ZZ	Restriction of Left Internal Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VH0CZ	Restriction of Right External Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VH0DZ	Restriction of Right External Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VH0ZZ	Restriction of Right External Iliac Artery, Open Approach	PX	ICD-10-PCS
04VH3CZ	Restriction of Right External Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VH3DZ	Restriction of Right External Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VH3ZZ	Restriction of Right External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04VH4CZ	Restriction of Right External Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VH4DZ	Restriction of Right External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VH4ZZ	Restriction of Right External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VJ0CZ	Restriction of Left External Iliac Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VJ0DZ	Restriction of Left External Iliac Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VJ0ZZ	Restriction of Left External Iliac Artery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04VJ3CZ	Restriction of Left External Iliac Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VJ3DZ	Restriction of Left External Iliac Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VJ3ZZ	Restriction of Left External Iliac Artery, Percutaneous Approach	PX	ICD-10-PCS
04VJ4CZ	Restriction of Left External Iliac Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VJ4DZ	Restriction of Left External Iliac Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VJ4ZZ	Restriction of Left External Iliac Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VK0CZ	Restriction of Right Femoral Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VK0DZ	Restriction of Right Femoral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VK0ZZ	Restriction of Right Femoral Artery, Open Approach	PX	ICD-10-PCS
04VK3CZ	Restriction of Right Femoral Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VK3DZ	Restriction of Right Femoral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VK3ZZ	Restriction of Right Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04VK4CZ	Restriction of Right Femoral Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VK4DZ	Restriction of Right Femoral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VK4ZZ	Restriction of Right Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VL0CZ	Restriction of Left Femoral Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VL0DZ	Restriction of Left Femoral Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VL0ZZ	Restriction of Left Femoral Artery, Open Approach	PX	ICD-10-PCS
04VL3CZ	Restriction of Left Femoral Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VL3DZ	Restriction of Left Femoral Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VL3ZZ	Restriction of Left Femoral Artery, Percutaneous Approach	PX	ICD-10-PCS
04VL4CZ	Restriction of Left Femoral Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VL4DZ	Restriction of Left Femoral Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VL4ZZ	Restriction of Left Femoral Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VM0CZ	Restriction of Right Popliteal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VM0DZ	Restriction of Right Popliteal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VM0ZZ	Restriction of Right Popliteal Artery, Open Approach	PX	ICD-10-PCS
04VM3CZ	Restriction of Right Popliteal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VM3DZ	Restriction of Right Popliteal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VM3ZZ	Restriction of Right Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04VM4CZ	Restriction of Right Popliteal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VM4DZ	Restriction of Right Popliteal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VM4ZZ	Restriction of Right Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VN0CZ	Restriction of Left Popliteal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VN0DZ	Restriction of Left Popliteal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VN0ZZ	Restriction of Left Popliteal Artery, Open Approach	PX	ICD-10-PCS
04VN3CZ	Restriction of Left Popliteal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VN3DZ	Restriction of Left Popliteal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VN3ZZ	Restriction of Left Popliteal Artery, Percutaneous Approach	PX	ICD-10-PCS
04VN4CZ	Restriction of Left Popliteal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VN4DZ	Restriction of Left Popliteal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VN4ZZ	Restriction of Left Popliteal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VP0CZ	Restriction of Right Anterior Tibial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VP0DZ	Restriction of Right Anterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VP0ZZ	Restriction of Right Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04VP3CZ	Restriction of Right Anterior Tibial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VP3DZ	Restriction of Right Anterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VP3ZZ	Restriction of Right Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04VP4CZ	Restriction of Right Anterior Tibial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VP4DZ	Restriction of Right Anterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VP4ZZ	Restriction of Right Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VQ0CZ	Restriction of Left Anterior Tibial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VQ0DZ	Restriction of Left Anterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VQ0ZZ	Restriction of Left Anterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04VQ3CZ	Restriction of Left Anterior Tibial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VQ3DZ	Restriction of Left Anterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VQ3ZZ	Restriction of Left Anterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04VQ4CZ	Restriction of Left Anterior Tibial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04VQ4DZ	Restriction of Left Anterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VQ4ZZ	Restriction of Left Anterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VR0CZ	Restriction of Right Posterior Tibial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VR0DZ	Restriction of Right Posterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VR0ZZ	Restriction of Right Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04VR3CZ	Restriction of Right Posterior Tibial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VR3DZ	Restriction of Right Posterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VR3ZZ	Restriction of Right Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04VR4CZ	Restriction of Right Posterior Tibial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VR4DZ	Restriction of Right Posterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VR4ZZ	Restriction of Right Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VS0CZ	Restriction of Left Posterior Tibial Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VS0DZ	Restriction of Left Posterior Tibial Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VS0ZZ	Restriction of Left Posterior Tibial Artery, Open Approach	PX	ICD-10-PCS
04VS3CZ	Restriction of Left Posterior Tibial Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VS3DZ	Restriction of Left Posterior Tibial Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VS3ZZ	Restriction of Left Posterior Tibial Artery, Percutaneous Approach	PX	ICD-10-PCS
04VS4CZ	Restriction of Left Posterior Tibial Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VS4DZ	Restriction of Left Posterior Tibial Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VS4ZZ	Restriction of Left Posterior Tibial Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VT0CZ	Restriction of Right Peroneal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VT0DZ	Restriction of Right Peroneal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VT0ZZ	Restriction of Right Peroneal Artery, Open Approach	PX	ICD-10-PCS
04VT3CZ	Restriction of Right Peroneal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VT3DZ	Restriction of Right Peroneal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VT3ZZ	Restriction of Right Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04VT4CZ	Restriction of Right Peroneal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VT4DZ	Restriction of Right Peroneal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04VT4ZZ	Restriction of Right Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VU0CZ	Restriction of Left Peroneal Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VU0DZ	Restriction of Left Peroneal Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VU0ZZ	Restriction of Left Peroneal Artery, Open Approach	PX	ICD-10-PCS
04VU3CZ	Restriction of Left Peroneal Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VU3DZ	Restriction of Left Peroneal Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VU3ZZ	Restriction of Left Peroneal Artery, Percutaneous Approach	PX	ICD-10-PCS
04VU4CZ	Restriction of Left Peroneal Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VU4DZ	Restriction of Left Peroneal Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VU4ZZ	Restriction of Left Peroneal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VV0CZ	Restriction of Right Foot Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VV0DZ	Restriction of Right Foot Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VV0ZZ	Restriction of Right Foot Artery, Open Approach	PX	ICD-10-PCS
04VV3CZ	Restriction of Right Foot Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VV3DZ	Restriction of Right Foot Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VV3ZZ	Restriction of Right Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04VV4CZ	Restriction of Right Foot Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VV4DZ	Restriction of Right Foot Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VV4ZZ	Restriction of Right Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VW0CZ	Restriction of Left Foot Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VW0DZ	Restriction of Left Foot Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VW0ZZ	Restriction of Left Foot Artery, Open Approach	PX	ICD-10-PCS
04VW3CZ	Restriction of Left Foot Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VW3DZ	Restriction of Left Foot Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VW3ZZ	Restriction of Left Foot Artery, Percutaneous Approach	PX	ICD-10-PCS
04VW4CZ	Restriction of Left Foot Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VW4DZ	Restriction of Left Foot Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VW4ZZ	Restriction of Left Foot Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VY0CZ	Restriction of Lower Artery with Extraluminal Device, Open Approach	PX	ICD-10-PCS
04VY0DZ	Restriction of Lower Artery with Intraluminal Device, Open Approach	PX	ICD-10-PCS
04VY0ZZ	Restriction of Lower Artery, Open Approach	PX	ICD-10-PCS
04VY3CZ	Restriction of Lower Artery with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VY3DZ	Restriction of Lower Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
04VY3ZZ	Restriction of Lower Artery, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
04VY4CZ	Restriction of Lower Artery with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VY4DZ	Restriction of Lower Artery with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04VY4ZZ	Restriction of Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04WY00Z	Revision of Drainage Device in Lower Artery, Open Approach	PX	ICD-10-PCS
04WY02Z	Revision of Monitoring Device in Lower Artery, Open Approach	PX	ICD-10-PCS
04WY03Z	Revision of Infusion Device in Lower Artery, Open Approach	PX	ICD-10-PCS
04WY07Z	Revision of Autologous Tissue Substitute in Lower Artery, Open Approach	PX	ICD-10-PCS
04WY0CZ	Revision of Extraluminal Device in Lower Artery, Open Approach	PX	ICD-10-PCS
04WY0DZ	Revision of Intraluminal Device in Lower Artery, Open Approach	PX	ICD-10-PCS
04WY0JZ	Revision of Synthetic Substitute in Lower Artery, Open Approach	PX	ICD-10-PCS
04WY0KZ	Revision of Nonautologous Tissue Substitute in Lower Artery, Open Approach	PX	ICD-10-PCS
04WY0YZ	Revision of Other Device in Lower Artery, Open Approach	PX	ICD-10-PCS
04WY37Z	Revision of Autologous Tissue Substitute in Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04WY3CZ	Revision of Extraluminal Device in Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04WY3DZ	Revision of Intraluminal Device in Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04WY3JZ	Revision of Synthetic Substitute in Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04WY3KZ	Revision of Nonautologous Tissue Substitute in Lower Artery, Percutaneous Approach	PX	ICD-10-PCS
04WY40Z	Revision of Drainage Device in Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04WY42Z	Revision of Monitoring Device in Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04WY43Z	Revision of Infusion Device in Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04WY47Z	Revision of Autologous Tissue Substitute in Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04WY4CZ	Revision of Extraluminal Device in Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04WY4DZ	Revision of Intraluminal Device in Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04WY4JZ	Revision of Synthetic Substitute in Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04WY4KZ	Revision of Nonautologous Tissue Substitute in Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
04WY4YZ	Revision of Other Device in Lower Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051007Y	Bypass Azygos Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051009Y	Bypass Azygos Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
05100AY	Bypass Azygos Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
05100JY	Bypass Azygos Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05100KY	Bypass Azygos Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05100ZY	Bypass Azygos Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051047Y	Bypass Azygos Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051049Y	Bypass Azygos Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05104AY	Bypass Azygos Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05104JY	Bypass Azygos Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05104KY	Bypass Azygos Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05104ZY	Bypass Azygos Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051107Y	Bypass Hemiazygos Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051109Y	Bypass Hemiazygos Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
05110AY	Bypass Hemiazygos Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
05110JY	Bypass Hemiazygos Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05110KY	Bypass Hemiazygos Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05110ZY	Bypass Hemiazygos Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051147Y	Bypass Hemiazygos Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051149Y	Bypass Hemiazygos Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05114AY	Bypass Hemiazygos Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05114JY	Bypass Hemiazygos Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05114KY	Bypass Hemiazygos Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05114ZY	Bypass Hemiazygos Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051307Y	Bypass Right Innominate Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051309Y	Bypass Right Innominate Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
05130AY	Bypass Right Innominate Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
05130JY	Bypass Right Innominate Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05130KY	Bypass Right Innominate Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05130ZY	Bypass Right Innominate Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051347Y	Bypass Right Innominate Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051349Y	Bypass Right Innominate Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05134AY	Bypass Right Innominate Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05134JY	Bypass Right Innominate Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05134KY	Bypass Right Innominate Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05134ZY	Bypass Right Innominate Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051407Y	Bypass Left Innominate Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051409Y	Bypass Left Innominate Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
05140AY	Bypass Left Innominate Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
05140JY	Bypass Left Innominate Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05140KY	Bypass Left Innominate Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05140ZY	Bypass Left Innominate Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051447Y	Bypass Left Innominate Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051449Y	Bypass Left Innominate Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05144AY	Bypass Left Innominate Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05144JY	Bypass Left Innominate Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05144KY	Bypass Left Innominate Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05144ZY	Bypass Left Innominate Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051507Y	Bypass Right Subclavian Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051509Y	Bypass Right Subclavian Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
05150AY	Bypass Right Subclavian Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
05150JY	Bypass Right Subclavian Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05150KY	Bypass Right Subclavian Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05150ZY	Bypass Right Subclavian Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051547Y	Bypass Right Subclavian Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051549Y	Bypass Right Subclavian Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05154AY	Bypass Right Subclavian Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05154JY	Bypass Right Subclavian Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05154KY	Bypass Right Subclavian Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05154ZY	Bypass Right Subclavian Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051607Y	Bypass Left Subclavian Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051609Y	Bypass Left Subclavian Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
05160AY	Bypass Left Subclavian Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
05160JY	Bypass Left Subclavian Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05160KY	Bypass Left Subclavian Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05160ZY	Bypass Left Subclavian Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051647Y	Bypass Left Subclavian Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051649Y	Bypass Left Subclavian Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05164AY	Bypass Left Subclavian Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05164JY	Bypass Left Subclavian Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05164KY	Bypass Left Subclavian Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05164ZY	Bypass Left Subclavian Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051707Y	Bypass Right Axillary Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051709Y	Bypass Right Axillary Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
05170AY	Bypass Right Axillary Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
05170JY	Bypass Right Axillary Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05170KY	Bypass Right Axillary Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05170ZY	Bypass Right Axillary Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051747Y	Bypass Right Axillary Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051749Y	Bypass Right Axillary Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05174AY	Bypass Right Axillary Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05174JY	Bypass Right Axillary Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05174KY	Bypass Right Axillary Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05174ZY	Bypass Right Axillary Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051807Y	Bypass Left Axillary Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051809Y	Bypass Left Axillary Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
05180AY	Bypass Left Axillary Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
05180JY	Bypass Left Axillary Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05180KY	Bypass Left Axillary Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05180ZY	Bypass Left Axillary Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051847Y	Bypass Left Axillary Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051849Y	Bypass Left Axillary Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05184AY	Bypass Left Axillary Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05184JY	Bypass Left Axillary Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05184KY	Bypass Left Axillary Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05184ZY	Bypass Left Axillary Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051907Y	Bypass Right Brachial Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051909Y	Bypass Right Brachial Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
05190AY	Bypass Right Brachial Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
05190JY	Bypass Right Brachial Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05190KY	Bypass Right Brachial Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05190ZY	Bypass Right Brachial Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051947Y	Bypass Right Brachial Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051949Y	Bypass Right Brachial Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05194AY	Bypass Right Brachial Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05194JY	Bypass Right Brachial Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05194KY	Bypass Right Brachial Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05194ZY	Bypass Right Brachial Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051A07Y	Bypass Left Brachial Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051A09Y	Bypass Left Brachial Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051A0AY	Bypass Left Brachial Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051A0JY	Bypass Left Brachial Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051A0KY	Bypass Left Brachial Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051A0ZY	Bypass Left Brachial Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051A47Y	Bypass Left Brachial Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051A49Y	Bypass Left Brachial Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051A4AY	Bypass Left Brachial Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051A4JY	Bypass Left Brachial Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051A4KY	Bypass Left Brachial Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051A4ZY	Bypass Left Brachial Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051B07Y	Bypass Right Basilic Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051B09Y	Bypass Right Basilic Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051B0AY	Bypass Right Basilic Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051B0JY	Bypass Right Basilic Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
051B0KY	Bypass Right Basilic Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051B0ZY	Bypass Right Basilic Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051B47Y	Bypass Right Basilic Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051B49Y	Bypass Right Basilic Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051B4AY	Bypass Right Basilic Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051B4JY	Bypass Right Basilic Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051B4KY	Bypass Right Basilic Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051B4ZY	Bypass Right Basilic Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051C07Y	Bypass Left Basilic Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051C09Y	Bypass Left Basilic Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051C0AY	Bypass Left Basilic Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051C0JY	Bypass Left Basilic Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051C0KY	Bypass Left Basilic Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051C0ZY	Bypass Left Basilic Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051C47Y	Bypass Left Basilic Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051C49Y	Bypass Left Basilic Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051C4AY	Bypass Left Basilic Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051C4JY	Bypass Left Basilic Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051C4KY	Bypass Left Basilic Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051C4ZY	Bypass Left Basilic Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051D07Y	Bypass Right Cephalic Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051D09Y	Bypass Right Cephalic Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051D0AY	Bypass Right Cephalic Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051D0JY	Bypass Right Cephalic Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051D0KY	Bypass Right Cephalic Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
051D0ZY	Bypass Right Cephalic Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051D47Y	Bypass Right Cephalic Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051D49Y	Bypass Right Cephalic Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051D4AY	Bypass Right Cephalic Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051D4JY	Bypass Right Cephalic Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051D4KY	Bypass Right Cephalic Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051D4ZY	Bypass Right Cephalic Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051F07Y	Bypass Left Cephalic Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051F09Y	Bypass Left Cephalic Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051F0AY	Bypass Left Cephalic Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051F0JY	Bypass Left Cephalic Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051F0KY	Bypass Left Cephalic Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051F0ZY	Bypass Left Cephalic Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051F47Y	Bypass Left Cephalic Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051F49Y	Bypass Left Cephalic Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051F4AY	Bypass Left Cephalic Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051F4JY	Bypass Left Cephalic Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051F4KY	Bypass Left Cephalic Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051F4ZY	Bypass Left Cephalic Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051G07Y	Bypass Right Hand Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051G09Y	Bypass Right Hand Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051G0AY	Bypass Right Hand Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051G0JY	Bypass Right Hand Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051G0KY	Bypass Right Hand Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051G0ZY	Bypass Right Hand Vein to Upper Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
051G47Y	Bypass Right Hand Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051G49Y	Bypass Right Hand Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051G4AY	Bypass Right Hand Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051G4JY	Bypass Right Hand Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051G4KY	Bypass Right Hand Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051G4ZY	Bypass Right Hand Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051H07Y	Bypass Left Hand Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051H09Y	Bypass Left Hand Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051H0AY	Bypass Left Hand Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051H0JY	Bypass Left Hand Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051H0KY	Bypass Left Hand Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051H0ZY	Bypass Left Hand Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051H47Y	Bypass Left Hand Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051H49Y	Bypass Left Hand Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051H4AY	Bypass Left Hand Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051H4JY	Bypass Left Hand Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051H4KY	Bypass Left Hand Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051H4ZY	Bypass Left Hand Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051L07Y	Bypass Intracranial Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051L09Y	Bypass Intracranial Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051L0AY	Bypass Intracranial Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051L0JY	Bypass Intracranial Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051L0KY	Bypass Intracranial Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051L0ZY	Bypass Intracranial Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051L47Y	Bypass Intracranial Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
051L49Y	Bypass Intracranial Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051L4AY	Bypass Intracranial Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051L4JY	Bypass Intracranial Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051L4KY	Bypass Intracranial Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051L4ZY	Bypass Intracranial Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051M07Y	Bypass Right Internal Jugular Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051M09Y	Bypass Right Internal Jugular Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051M0AY	Bypass Right Internal Jugular Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051M0JY	Bypass Right Internal Jugular Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051M0KY	Bypass Right Internal Jugular Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051M0ZY	Bypass Right Internal Jugular Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051M47Y	Bypass Right Internal Jugular Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051M49Y	Bypass Right Internal Jugular Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051M4AY	Bypass Right Internal Jugular Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051M4JY	Bypass Right Internal Jugular Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051M4KY	Bypass Right Internal Jugular Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051M4ZY	Bypass Right Internal Jugular Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051N07Y	Bypass Left Internal Jugular Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051N09Y	Bypass Left Internal Jugular Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051N0AY	Bypass Left Internal Jugular Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051N0JY	Bypass Left Internal Jugular Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051N0KY	Bypass Left Internal Jugular Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051N0ZY	Bypass Left Internal Jugular Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051N47Y	Bypass Left Internal Jugular Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
051N49Y	Bypass Left Internal Jugular Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051N4AY	Bypass Left Internal Jugular Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051N4JY	Bypass Left Internal Jugular Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051N4KY	Bypass Left Internal Jugular Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051N4ZY	Bypass Left Internal Jugular Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051P07Y	Bypass Right External Jugular Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051P09Y	Bypass Right External Jugular Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051P0AY	Bypass Right External Jugular Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051P0JY	Bypass Right External Jugular Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051P0KY	Bypass Right External Jugular Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051P0ZY	Bypass Right External Jugular Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051P47Y	Bypass Right External Jugular Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051P49Y	Bypass Right External Jugular Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051P4AY	Bypass Right External Jugular Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051P4JY	Bypass Right External Jugular Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051P4KY	Bypass Right External Jugular Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051P4ZY	Bypass Right External Jugular Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051Q07Y	Bypass Left External Jugular Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051Q09Y	Bypass Left External Jugular Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051Q0AY	Bypass Left External Jugular Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051Q0JY	Bypass Left External Jugular Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051Q0KY	Bypass Left External Jugular Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051Q0ZY	Bypass Left External Jugular Vein to Upper Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
051Q47Y	Bypass Left External Jugular Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051Q49Y	Bypass Left External Jugular Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051Q4AY	Bypass Left External Jugular Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051Q4JY	Bypass Left External Jugular Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051Q4KY	Bypass Left External Jugular Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051Q4ZY	Bypass Left External Jugular Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051R07Y	Bypass Right Vertebral Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051R09Y	Bypass Right Vertebral Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051R0AY	Bypass Right Vertebral Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051R0JY	Bypass Right Vertebral Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051R0KY	Bypass Right Vertebral Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051R0ZY	Bypass Right Vertebral Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051R47Y	Bypass Right Vertebral Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051R49Y	Bypass Right Vertebral Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051R4AY	Bypass Right Vertebral Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051R4JY	Bypass Right Vertebral Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051R4KY	Bypass Right Vertebral Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051R4ZY	Bypass Right Vertebral Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051S07Y	Bypass Left Vertebral Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051S09Y	Bypass Left Vertebral Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051S0AY	Bypass Left Vertebral Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051S0JY	Bypass Left Vertebral Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051S0KY	Bypass Left Vertebral Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051S0ZY	Bypass Left Vertebral Vein to Upper Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
051S47Y	Bypass Left Vertebral Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051S49Y	Bypass Left Vertebral Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051S4AY	Bypass Left Vertebral Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051S4JY	Bypass Left Vertebral Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051S4KY	Bypass Left Vertebral Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051S4ZY	Bypass Left Vertebral Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051T07Y	Bypass Right Face Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051T09Y	Bypass Right Face Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051T0AY	Bypass Right Face Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051T0JY	Bypass Right Face Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051T0KY	Bypass Right Face Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051T0ZY	Bypass Right Face Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051T47Y	Bypass Right Face Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051T49Y	Bypass Right Face Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051T4AY	Bypass Right Face Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051T4JY	Bypass Right Face Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051T4KY	Bypass Right Face Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051T4ZY	Bypass Right Face Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051V07Y	Bypass Left Face Vein to Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051V09Y	Bypass Left Face Vein to Upper Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
051V0AY	Bypass Left Face Vein to Upper Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
051V0JY	Bypass Left Face Vein to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
051V0KY	Bypass Left Face Vein to Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
051V0ZY	Bypass Left Face Vein to Upper Vein, Open Approach	PX	ICD-10-PCS
051V47Y	Bypass Left Face Vein to Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
051V49Y	Bypass Left Face Vein to Upper Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051V4AY	Bypass Left Face Vein to Upper Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051V4JY	Bypass Left Face Vein to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051V4KY	Bypass Left Face Vein to Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
051V4ZY	Bypass Left Face Vein to Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05500ZZ	Destruction of Azygos Vein, Open Approach	PX	ICD-10-PCS
05503ZZ	Destruction of Azygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05504ZZ	Destruction of Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05510ZZ	Destruction of Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05513ZZ	Destruction of Hemiazygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05514ZZ	Destruction of Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05530ZZ	Destruction of Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05533ZZ	Destruction of Right Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05534ZZ	Destruction of Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05540ZZ	Destruction of Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05543ZZ	Destruction of Left Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05544ZZ	Destruction of Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05550ZZ	Destruction of Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05553ZZ	Destruction of Right Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05554ZZ	Destruction of Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05560ZZ	Destruction of Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05563ZZ	Destruction of Left Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05564ZZ	Destruction of Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05570ZZ	Destruction of Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05573ZZ	Destruction of Right Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05574ZZ	Destruction of Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05580ZZ	Destruction of Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05583ZZ	Destruction of Left Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05584ZZ	Destruction of Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05590ZZ	Destruction of Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05593ZZ	Destruction of Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05594ZZ	Destruction of Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055A0ZZ	Destruction of Left Brachial Vein, Open Approach	PX	ICD-10-PCS
055A3ZZ	Destruction of Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
055A4ZZ	Destruction of Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055B0ZZ	Destruction of Right Basilic Vein, Open Approach	PX	ICD-10-PCS
055B3ZZ	Destruction of Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
055B4ZZ	Destruction of Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055C0ZZ	Destruction of Left Basilic Vein, Open Approach	PX	ICD-10-PCS
055C3ZZ	Destruction of Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
055C4ZZ	Destruction of Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
055D0ZZ	Destruction of Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
055D3ZZ	Destruction of Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
055D4ZZ	Destruction of Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055F0ZZ	Destruction of Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
055F3ZZ	Destruction of Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
055F4ZZ	Destruction of Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055G0ZZ	Destruction of Right Hand Vein, Open Approach	PX	ICD-10-PCS
055G3ZZ	Destruction of Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
055G4ZZ	Destruction of Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055H0ZZ	Destruction of Left Hand Vein, Open Approach	PX	ICD-10-PCS
055H3ZZ	Destruction of Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
055H4ZZ	Destruction of Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055L0ZZ	Destruction of Intracranial Vein, Open Approach	PX	ICD-10-PCS
055L3ZZ	Destruction of Intracranial Vein, Percutaneous Approach	PX	ICD-10-PCS
055L4ZZ	Destruction of Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055M0ZZ	Destruction of Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
055M3ZZ	Destruction of Right Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
055M4ZZ	Destruction of Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055N0ZZ	Destruction of Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
055N3ZZ	Destruction of Left Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
055N4ZZ	Destruction of Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055P0ZZ	Destruction of Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
055P3ZZ	Destruction of Right External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
055P4ZZ	Destruction of Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055Q0ZZ	Destruction of Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
055Q3ZZ	Destruction of Left External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
055Q4ZZ	Destruction of Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055R0ZZ	Destruction of Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
055R3ZZ	Destruction of Right Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
055R4ZZ	Destruction of Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055S0ZZ	Destruction of Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
055S3ZZ	Destruction of Left Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
055S4ZZ	Destruction of Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055T0ZZ	Destruction of Right Face Vein, Open Approach	PX	ICD-10-PCS
055T3ZZ	Destruction of Right Face Vein, Percutaneous Approach	PX	ICD-10-PCS
055T4ZZ	Destruction of Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055V0ZZ	Destruction of Left Face Vein, Open Approach	PX	ICD-10-PCS
055V3ZZ	Destruction of Left Face Vein, Percutaneous Approach	PX	ICD-10-PCS
055V4ZZ	Destruction of Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
055Y0ZZ	Destruction of Upper Vein, Open Approach	PX	ICD-10-PCS
055Y3ZZ	Destruction of Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
055Y4ZZ	Destruction of Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05700DZ	Dilation of Azygos Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05700ZZ	Dilation of Azygos Vein, Open Approach	PX	ICD-10-PCS
05703DZ	Dilation of Azygos Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05703ZZ	Dilation of Azygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05704DZ	Dilation of Azygos Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05704ZZ	Dilation of Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05710DZ	Dilation of Hemiazygos Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05710ZZ	Dilation of Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05713DZ	Dilation of Hemiazygos Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05713ZZ	Dilation of Hemiazygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05714DZ	Dilation of Hemiazygos Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05714ZZ	Dilation of Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05730D1	Dilation of Right Innominate Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05730DZ	Dilation of Right Innominate Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05730Z1	Dilation of Right Innominate Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05730ZZ	Dilation of Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05733D1	Dilation of Right Innominate Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05733DZ	Dilation of Right Innominate Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05733Z1	Dilation of Right Innominate Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05733ZZ	Dilation of Right Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05734D1	Dilation of Right Innominate Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05734DZ	Dilation of Right Innominate Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05734Z1	Dilation of Right Innominate Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05734ZZ	Dilation of Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05740D1	Dilation of Left Innominate Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05740DZ	Dilation of Left Innominate Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05740Z1	Dilation of Left Innominate Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05740ZZ	Dilation of Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05743D1	Dilation of Left Innominate Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05743DZ	Dilation of Left Innominate Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05743Z1	Dilation of Left Innominate Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05743ZZ	Dilation of Left Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05744D1	Dilation of Left Innominate Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05744DZ	Dilation of Left Innominate Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05744Z1	Dilation of Left Innominate Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05744ZZ	Dilation of Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05750D1	Dilation of Right Subclavian Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05750DZ	Dilation of Right Subclavian Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05750Z1	Dilation of Right Subclavian Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05750ZZ	Dilation of Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05753D1	Dilation of Right Subclavian Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05753DZ	Dilation of Right Subclavian Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05753Z1	Dilation of Right Subclavian Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05753ZZ	Dilation of Right Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05754D1	Dilation of Right Subclavian Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05754DZ	Dilation of Right Subclavian Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05754Z1	Dilation of Right Subclavian Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05754ZZ	Dilation of Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05760D1	Dilation of Left Subclavian Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05760DZ	Dilation of Left Subclavian Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05760Z1	Dilation of Left Subclavian Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05760ZZ	Dilation of Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05763D1	Dilation of Left Subclavian Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05763DZ	Dilation of Left Subclavian Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05763Z1	Dilation of Left Subclavian Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05763ZZ	Dilation of Left Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05764D1	Dilation of Left Subclavian Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05764DZ	Dilation of Left Subclavian Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05764Z1	Dilation of Left Subclavian Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05764ZZ	Dilation of Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05770D1	Dilation of Right Axillary Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05770DZ	Dilation of Right Axillary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05770Z1	Dilation of Right Axillary Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05770ZZ	Dilation of Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05773D1	Dilation of Right Axillary Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05773DZ	Dilation of Right Axillary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05773Z1	Dilation of Right Axillary Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05773ZZ	Dilation of Right Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05774D1	Dilation of Right Axillary Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05774DZ	Dilation of Right Axillary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05774Z1	Dilation of Right Axillary Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05774ZZ	Dilation of Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05780D1	Dilation of Left Axillary Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05780DZ	Dilation of Left Axillary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05780Z1	Dilation of Left Axillary Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05780ZZ	Dilation of Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05783D1	Dilation of Left Axillary Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05783DZ	Dilation of Left Axillary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05783Z1	Dilation of Left Axillary Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05783ZZ	Dilation of Left Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05784D1	Dilation of Left Axillary Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05784DZ	Dilation of Left Axillary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05784Z1	Dilation of Left Axillary Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05784ZZ	Dilation of Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05790D1	Dilation of Right Brachial Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05790DZ	Dilation of Right Brachial Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05790Z1	Dilation of Right Brachial Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
05790ZZ	Dilation of Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05793D1	Dilation of Right Brachial Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05793DZ	Dilation of Right Brachial Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05793Z1	Dilation of Right Brachial Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
05793ZZ	Dilation of Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05794D1	Dilation of Right Brachial Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05794DZ	Dilation of Right Brachial Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05794Z1	Dilation of Right Brachial Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05794ZZ	Dilation of Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057A0D1	Dilation of Left Brachial Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
057A0DZ	Dilation of Left Brachial Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057A0Z1	Dilation of Left Brachial Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
057A0ZZ	Dilation of Left Brachial Vein, Open Approach	PX	ICD-10-PCS
057A3D1	Dilation of Left Brachial Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
057A3DZ	Dilation of Left Brachial Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057A3Z1	Dilation of Left Brachial Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
057A3ZZ	Dilation of Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
057A4D1	Dilation of Left Brachial Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057A4DZ	Dilation of Left Brachial Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057A4Z1	Dilation of Left Brachial Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057A4ZZ	Dilation of Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057B0D1	Dilation of Right Basilic Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
057B0DZ	Dilation of Right Basilic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057B0Z1	Dilation of Right Basilic Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
057B0ZZ	Dilation of Right Basilic Vein, Open Approach	PX	ICD-10-PCS
057B3D1	Dilation of Right Basilic Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
057B3DZ	Dilation of Right Basilic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057B3Z1	Dilation of Right Basilic Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
057B3ZZ	Dilation of Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
057B4D1	Dilation of Right Basilic Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057B4DZ	Dilation of Right Basilic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057B4Z1	Dilation of Right Basilic Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057B4ZZ	Dilation of Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057C0D1	Dilation of Left Basilic Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
057C0DZ	Dilation of Left Basilic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057C0Z1	Dilation of Left Basilic Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
057C0ZZ	Dilation of Left Basilic Vein, Open Approach	PX	ICD-10-PCS
057C3D1	Dilation of Left Basilic Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
057C3DZ	Dilation of Left Basilic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057C3Z1	Dilation of Left Basilic Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
057C3ZZ	Dilation of Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
057C4D1	Dilation of Left Basilic Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057C4DZ	Dilation of Left Basilic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057C4Z1	Dilation of Left Basilic Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057C4ZZ	Dilation of Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057D0D1	Dilation of Right Cephalic Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
057D0DZ	Dilation of Right Cephalic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057D0Z1	Dilation of Right Cephalic Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
057D0ZZ	Dilation of Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
057D3D1	Dilation of Right Cephalic Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
057D3DZ	Dilation of Right Cephalic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057D3Z1	Dilation of Right Cephalic Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
057D3ZZ	Dilation of Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
057D4D1	Dilation of Right Cephalic Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057D4DZ	Dilation of Right Cephalic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057D4Z1	Dilation of Right Cephalic Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057D4ZZ	Dilation of Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057F0D1	Dilation of Left Cephalic Vein with Intraluminal Device, using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
057F0DZ	Dilation of Left Cephalic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057F0Z1	Dilation of Left Cephalic Vein using Drug-Coated Balloon, Open Approach	PX	ICD-10-PCS
057F0ZZ	Dilation of Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
057F3D1	Dilation of Left Cephalic Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
057F3DZ	Dilation of Left Cephalic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057F3Z1	Dilation of Left Cephalic Vein using Drug-Coated Balloon, Percutaneous Approach	PX	ICD-10-PCS
057F3ZZ	Dilation of Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
057F4D1	Dilation of Left Cephalic Vein with Intraluminal Device, using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057F4DZ	Dilation of Left Cephalic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057F4Z1	Dilation of Left Cephalic Vein using Drug-Coated Balloon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057F4ZZ	Dilation of Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057G0DZ	Dilation of Right Hand Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057G0ZZ	Dilation of Right Hand Vein, Open Approach	PX	ICD-10-PCS
057G3DZ	Dilation of Right Hand Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057G3ZZ	Dilation of Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
057G4DZ	Dilation of Right Hand Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057G4ZZ	Dilation of Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057H0DZ	Dilation of Left Hand Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057H0ZZ	Dilation of Left Hand Vein, Open Approach	PX	ICD-10-PCS
057H3DZ	Dilation of Left Hand Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057H3ZZ	Dilation of Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
057H4DZ	Dilation of Left Hand Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057H4ZZ	Dilation of Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057L0DZ	Dilation of Intracranial Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057L0ZZ	Dilation of Intracranial Vein, Open Approach	PX	ICD-10-PCS
057L3DZ	Dilation of Intracranial Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057L3ZZ	Dilation of Intracranial Vein, Percutaneous Approach	PX	ICD-10-PCS
057L4DZ	Dilation of Intracranial Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057L4ZZ	Dilation of Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057M0DZ	Dilation of Right Internal Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057M0ZZ	Dilation of Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
057M3DZ	Dilation of Right Internal Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057M3ZZ	Dilation of Right Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
057M4DZ	Dilation of Right Internal Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057M4ZZ	Dilation of Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057N0DZ	Dilation of Left Internal Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057N0ZZ	Dilation of Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
057N3DZ	Dilation of Left Internal Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057N3ZZ	Dilation of Left Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
057N4DZ	Dilation of Left Internal Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057N4ZZ	Dilation of Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057P0DZ	Dilation of Right External Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
057P0ZZ	Dilation of Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
057P3DZ	Dilation of Right External Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057P3ZZ	Dilation of Right External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
057P4DZ	Dilation of Right External Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057P4ZZ	Dilation of Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057Q0DZ	Dilation of Left External Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057Q0ZZ	Dilation of Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
057Q3DZ	Dilation of Left External Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057Q3ZZ	Dilation of Left External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
057Q4DZ	Dilation of Left External Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057Q4ZZ	Dilation of Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057R0DZ	Dilation of Right Vertebral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057R0ZZ	Dilation of Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
057R3DZ	Dilation of Right Vertebral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057R3ZZ	Dilation of Right Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
057R4DZ	Dilation of Right Vertebral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057R4ZZ	Dilation of Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057S0DZ	Dilation of Left Vertebral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057S0ZZ	Dilation of Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
057S3DZ	Dilation of Left Vertebral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057S3ZZ	Dilation of Left Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
057S4DZ	Dilation of Left Vertebral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057S4ZZ	Dilation of Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057T0DZ	Dilation of Right Face Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057T0ZZ	Dilation of Right Face Vein, Open Approach	PX	ICD-10-PCS
057T3DZ	Dilation of Right Face Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057T3ZZ	Dilation of Right Face Vein, Percutaneous Approach	PX	ICD-10-PCS
057T4DZ	Dilation of Right Face Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057T4ZZ	Dilation of Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057V0DZ	Dilation of Left Face Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
057V0ZZ	Dilation of Left Face Vein, Open Approach	PX	ICD-10-PCS
057V3DZ	Dilation of Left Face Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057V3ZZ	Dilation of Left Face Vein, Percutaneous Approach	PX	ICD-10-PCS
057V4DZ	Dilation of Left Face Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057V4ZZ	Dilation of Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057Y0DZ	Dilation of Upper Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
057Y0ZZ	Dilation of Upper Vein, Open Approach	PX	ICD-10-PCS
057Y3DZ	Dilation of Upper Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
057Y3ZZ	Dilation of Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
057Y4DZ	Dilation of Upper Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
057Y4ZZ	Dilation of Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059000Z	Drainage of Azygos Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
05900ZZ	Drainage of Azygos Vein, Open Approach	PX	ICD-10-PCS
059040Z	Drainage of Azygos Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05904ZZ	Drainage of Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059100Z	Drainage of Hemiazygos Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
05910ZZ	Drainage of Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
059140Z	Drainage of Hemiazygos Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05914ZZ	Drainage of Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059300Z	Drainage of Right Innominate Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
05930ZZ	Drainage of Right Innominate Vein, Open Approach	PX	ICD-10-PCS
059340Z	Drainage of Right Innominate Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05934ZZ	Drainage of Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059400Z	Drainage of Left Innominate Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
05940ZZ	Drainage of Left Innominate Vein, Open Approach	PX	ICD-10-PCS
059440Z	Drainage of Left Innominate Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05944ZZ	Drainage of Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059500Z	Drainage of Right Subclavian Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
05950ZZ	Drainage of Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
059540Z	Drainage of Right Subclavian Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05954ZZ	Drainage of Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059600Z	Drainage of Left Subclavian Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
05960ZZ	Drainage of Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
059640Z	Drainage of Left Subclavian Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05964ZZ	Drainage of Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059700Z	Drainage of Right Axillary Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
05970ZZ	Drainage of Right Axillary Vein, Open Approach	PX	ICD-10-PCS
059740Z	Drainage of Right Axillary Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05974ZZ	Drainage of Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059800Z	Drainage of Left Axillary Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
05980ZZ	Drainage of Left Axillary Vein, Open Approach	PX	ICD-10-PCS
059840Z	Drainage of Left Axillary Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05984ZZ	Drainage of Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059900Z	Drainage of Right Brachial Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
05990ZZ	Drainage of Right Brachial Vein, Open Approach	PX	ICD-10-PCS
059940Z	Drainage of Right Brachial Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05994ZZ	Drainage of Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059A00Z	Drainage of Left Brachial Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059A0ZZ	Drainage of Left Brachial Vein, Open Approach	PX	ICD-10-PCS
059A40Z	Drainage of Left Brachial Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059A4ZZ	Drainage of Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059B00Z	Drainage of Right Basilic Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059B0ZZ	Drainage of Right Basilic Vein, Open Approach	PX	ICD-10-PCS
059B40Z	Drainage of Right Basilic Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059B4ZZ	Drainage of Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059C00Z	Drainage of Left Basilic Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059C0ZZ	Drainage of Left Basilic Vein, Open Approach	PX	ICD-10-PCS
059C40Z	Drainage of Left Basilic Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059C4ZZ	Drainage of Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059D00Z	Drainage of Right Cephalic Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059D0ZZ	Drainage of Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
059D40Z	Drainage of Right Cephalic Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059D4ZZ	Drainage of Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059F00Z	Drainage of Left Cephalic Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059F0ZZ	Drainage of Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
059F40Z	Drainage of Left Cephalic Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059F4ZZ	Drainage of Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059G00Z	Drainage of Right Hand Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059G0ZZ	Drainage of Right Hand Vein, Open Approach	PX	ICD-10-PCS
059G40Z	Drainage of Right Hand Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059G4ZZ	Drainage of Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059H00Z	Drainage of Left Hand Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059H0ZZ	Drainage of Left Hand Vein, Open Approach	PX	ICD-10-PCS
059H40Z	Drainage of Left Hand Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059H4ZZ	Drainage of Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059L00Z	Drainage of Intracranial Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059L0ZZ	Drainage of Intracranial Vein, Open Approach	PX	ICD-10-PCS
059L40Z	Drainage of Intracranial Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
059L4ZZ	Drainage of Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059M00Z	Drainage of Right Internal Jugular Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059M0ZZ	Drainage of Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
059M40Z	Drainage of Right Internal Jugular Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059M4ZZ	Drainage of Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059N00Z	Drainage of Left Internal Jugular Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059N0ZZ	Drainage of Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
059N40Z	Drainage of Left Internal Jugular Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059N4ZZ	Drainage of Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059P00Z	Drainage of Right External Jugular Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059P0ZZ	Drainage of Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
059P40Z	Drainage of Right External Jugular Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059P4ZZ	Drainage of Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059Q00Z	Drainage of Left External Jugular Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059Q0ZZ	Drainage of Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
059Q40Z	Drainage of Left External Jugular Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059Q4ZZ	Drainage of Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059R00Z	Drainage of Right Vertebral Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059R0ZZ	Drainage of Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
059R40Z	Drainage of Right Vertebral Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059R4ZZ	Drainage of Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059S00Z	Drainage of Left Vertebral Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059S0ZZ	Drainage of Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
059S40Z	Drainage of Left Vertebral Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059S4ZZ	Drainage of Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059T00Z	Drainage of Right Face Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059T0ZZ	Drainage of Right Face Vein, Open Approach	PX	ICD-10-PCS
059T40Z	Drainage of Right Face Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059T4ZZ	Drainage of Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059V00Z	Drainage of Left Face Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059V0ZZ	Drainage of Left Face Vein, Open Approach	PX	ICD-10-PCS
059V40Z	Drainage of Left Face Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059V4ZZ	Drainage of Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
059Y00Z	Drainage of Upper Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
059Y0ZZ	Drainage of Upper Vein, Open Approach	PX	ICD-10-PCS
059Y40Z	Drainage of Upper Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
059Y4ZZ	Drainage of Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05B00ZZ	Excision of Azygos Vein, Open Approach	PX	ICD-10-PCS
05B03ZZ	Excision of Azygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05B04ZZ	Excision of Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05B10ZZ	Excision of Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05B13ZZ	Excision of Hemiazygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05B14ZZ	Excision of Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05B30ZZ	Excision of Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05B33ZZ	Excision of Right Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05B34ZZ	Excision of Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05B40ZZ	Excision of Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05B43ZZ	Excision of Left Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05B44ZZ	Excision of Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05B50ZZ	Excision of Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05B53ZZ	Excision of Right Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05B54ZZ	Excision of Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05B60ZZ	Excision of Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05B63ZZ	Excision of Left Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05B64ZZ	Excision of Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05B70ZZ	Excision of Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05B73ZZ	Excision of Right Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05B74ZZ	Excision of Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05B80ZZ	Excision of Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05B83ZZ	Excision of Left Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05B84ZZ	Excision of Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05B90ZZ	Excision of Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05B93ZZ	Excision of Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05B94ZZ	Excision of Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BA0ZZ	Excision of Left Brachial Vein, Open Approach	PX	ICD-10-PCS
05BA3ZZ	Excision of Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05BA4ZZ	Excision of Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BB0ZZ	Excision of Right Basilic Vein, Open Approach	PX	ICD-10-PCS
05BB3ZZ	Excision of Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05BB4ZZ	Excision of Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BC0ZZ	Excision of Left Basilic Vein, Open Approach	PX	ICD-10-PCS
05BC3ZZ	Excision of Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05BC4ZZ	Excision of Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BD0ZZ	Excision of Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
05BD3ZZ	Excision of Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05BD4ZZ	Excision of Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BF0ZZ	Excision of Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
05BF3ZZ	Excision of Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05BF4ZZ	Excision of Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BG0ZZ	Excision of Right Hand Vein, Open Approach	PX	ICD-10-PCS
05BG3ZZ	Excision of Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05BG4ZZ	Excision of Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BH0ZZ	Excision of Left Hand Vein, Open Approach	PX	ICD-10-PCS
05BH3ZZ	Excision of Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05BH4ZZ	Excision of Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BL0ZZ	Excision of Intracranial Vein, Open Approach	PX	ICD-10-PCS
05BL3ZZ	Excision of Intracranial Vein, Percutaneous Approach	PX	ICD-10-PCS
05BL4ZZ	Excision of Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BM0ZZ	Excision of Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05BM3ZZ	Excision of Right Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05BM4ZZ	Excision of Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BN0ZZ	Excision of Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05BN3ZZ	Excision of Left Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05BN4ZZ	Excision of Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BP0ZZ	Excision of Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
05BP3ZZ	Excision of Right External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05BP4ZZ	Excision of Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BQ0ZZ	Excision of Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
05BQ3ZZ	Excision of Left External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05BQ4ZZ	Excision of Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BR0ZZ	Excision of Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
05BR3ZZ	Excision of Right Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05BR4ZZ	Excision of Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BS0ZZ	Excision of Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
05BS3ZZ	Excision of Left Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05BS4ZZ	Excision of Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BT0ZZ	Excision of Right Face Vein, Open Approach	PX	ICD-10-PCS
05BT3ZZ	Excision of Right Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05BT4ZZ	Excision of Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BV0ZZ	Excision of Left Face Vein, Open Approach	PX	ICD-10-PCS
05BV3ZZ	Excision of Left Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05BV4ZZ	Excision of Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05BY0ZZ	Excision of Upper Vein, Open Approach	PX	ICD-10-PCS
05BY3ZZ	Excision of Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05BY4ZZ	Excision of Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05C00ZZ	Extirpation of Matter from Azygos Vein, Open Approach	PX	ICD-10-PCS
05C03ZZ	Extirpation of Matter from Azygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05C04ZZ	Extirpation of Matter from Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05C10ZZ	Extirpation of Matter from Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05C13ZZ	Extirpation of Matter from Hemiazygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05C14ZZ	Extirpation of Matter from Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05C30ZZ	Extirpation of Matter from Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05C33ZZ	Extirpation of Matter from Right Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05C34ZZ	Extirpation of Matter from Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05C40ZZ	Extirpation of Matter from Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05C43ZZ	Extirpation of Matter from Left Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05C44ZZ	Extirpation of Matter from Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05C50ZZ	Extirpation of Matter from Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05C53ZZ	Extirpation of Matter from Right Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05C54ZZ	Extirpation of Matter from Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05C60ZZ	Extirpation of Matter from Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05C63ZZ	Extirpation of Matter from Left Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05C64ZZ	Extirpation of Matter from Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05C70ZZ	Extirpation of Matter from Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05C73ZZ	Extirpation of Matter from Right Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05C74ZZ	Extirpation of Matter from Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05C80ZZ	Extirpation of Matter from Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05C83ZZ	Extirpation of Matter from Left Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05C84ZZ	Extirpation of Matter from Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05C90ZZ	Extirpation of Matter from Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05C93ZZ	Extirpation of Matter from Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05C94ZZ	Extirpation of Matter from Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CA0ZZ	Extirpation of Matter from Left Brachial Vein, Open Approach	PX	ICD-10-PCS
05CA3ZZ	Extirpation of Matter from Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05CA4ZZ	Extirpation of Matter from Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CB0ZZ	Extirpation of Matter from Right Basilic Vein, Open Approach	PX	ICD-10-PCS
05CB3ZZ	Extirpation of Matter from Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05CB4ZZ	Extirpation of Matter from Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CC0ZZ	Extirpation of Matter from Left Basilic Vein, Open Approach	PX	ICD-10-PCS
05CC3ZZ	Extirpation of Matter from Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05CC4ZZ	Extirpation of Matter from Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CD0ZZ	Extirpation of Matter from Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
05CD3ZZ	Extirpation of Matter from Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05CD4ZZ	Extirpation of Matter from Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CF0ZZ	Extirpation of Matter from Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
05CF3ZZ	Extirpation of Matter from Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05CF4ZZ	Extirpation of Matter from Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CG0ZZ	Extirpation of Matter from Right Hand Vein, Open Approach	PX	ICD-10-PCS
05CG3ZZ	Extirpation of Matter from Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05CG4ZZ	Extirpation of Matter from Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CH0ZZ	Extirpation of Matter from Left Hand Vein, Open Approach	PX	ICD-10-PCS
05CH3ZZ	Extirpation of Matter from Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05CH4ZZ	Extirpation of Matter from Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CL0ZZ	Extirpation of Matter from Intracranial Vein, Open Approach	PX	ICD-10-PCS
05CL3ZZ	Extirpation of Matter from Intracranial Vein, Percutaneous Approach	PX	ICD-10-PCS
05CL4ZZ	Extirpation of Matter from Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CM0ZZ	Extirpation of Matter from Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05CM3ZZ	Extirpation of Matter from Right Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05CM4ZZ	Extirpation of Matter from Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CN0ZZ	Extirpation of Matter from Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05CN3ZZ	Extirpation of Matter from Left Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05CN4ZZ	Extirpation of Matter from Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CP0ZZ	Extirpation of Matter from Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
05CP3ZZ	Extirpation of Matter from Right External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05CP4ZZ	Extirpation of Matter from Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CQ0ZZ	Extirpation of Matter from Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
05CQ3ZZ	Extirpation of Matter from Left External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05CQ4ZZ	Extirpation of Matter from Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CR0ZZ	Extirpation of Matter from Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
05CR3ZZ	Extirpation of Matter from Right Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05CR4ZZ	Extirpation of Matter from Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CS0ZZ	Extirpation of Matter from Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
05CS3ZZ	Extirpation of Matter from Left Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05CS4ZZ	Extirpation of Matter from Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CT0ZZ	Extirpation of Matter from Right Face Vein, Open Approach	PX	ICD-10-PCS
05CT3ZZ	Extirpation of Matter from Right Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05CT4ZZ	Extirpation of Matter from Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CV0ZZ	Extirpation of Matter from Left Face Vein, Open Approach	PX	ICD-10-PCS
05CV3ZZ	Extirpation of Matter from Left Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05CV4ZZ	Extirpation of Matter from Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05CY0ZZ	Extirpation of Matter from Upper Vein, Open Approach	PX	ICD-10-PCS
05CY3ZZ	Extirpation of Matter from Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05CY4ZZ	Extirpation of Matter from Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05D90ZZ	Extraction of Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05D93ZZ	Extraction of Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05DA0ZZ	Extraction of Left Brachial Vein, Open Approach	PX	ICD-10-PCS
05DA3ZZ	Extraction of Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05DB0ZZ	Extraction of Right Basilic Vein, Open Approach	PX	ICD-10-PCS
05DB3ZZ	Extraction of Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05DC0ZZ	Extraction of Left Basilic Vein, Open Approach	PX	ICD-10-PCS
05DC3ZZ	Extraction of Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05DD0ZZ	Extraction of Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
05DD3ZZ	Extraction of Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05DF0ZZ	Extraction of Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
05DF3ZZ	Extraction of Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05DG0ZZ	Extraction of Right Hand Vein, Open Approach	PX	ICD-10-PCS
05DG3ZZ	Extraction of Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05DH0ZZ	Extraction of Left Hand Vein, Open Approach	PX	ICD-10-PCS
05DH3ZZ	Extraction of Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05DY0ZZ	Extraction of Upper Vein, Open Approach	PX	ICD-10-PCS
05DY3ZZ	Extraction of Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05H003Z	Insertion of Infusion Device into Azygos Vein, Open Approach	PX	ICD-10-PCS
05H00DZ	Insertion of Intraluminal Device into Azygos Vein, Open Approach	PX	ICD-10-PCS
05H00MZ	Insertion of Neurostimulator Lead into Azygos Vein, Open Approach	PX	ICD-10-PCS
05H03DZ	Insertion of Intraluminal Device into Azygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05H043Z	Insertion of Infusion Device into Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H04DZ	Insertion of Intraluminal Device into Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H04MZ	Insertion of Neurostimulator Lead into Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H103Z	Insertion of Infusion Device into Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05H10DZ	Insertion of Intraluminal Device into Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05H13DZ	Insertion of Intraluminal Device into Hemiazygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05H143Z	Insertion of Infusion Device into Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H14DZ	Insertion of Intraluminal Device into Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H303Z	Insertion of Infusion Device into Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05H30DZ	Insertion of Intraluminal Device into Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05H30MZ	Insertion of Neurostimulator Lead into Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05H33DZ	Insertion of Intraluminal Device into Right Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05H343Z	Insertion of Infusion Device into Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H34DZ	Insertion of Intraluminal Device into Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H34MZ	Insertion of Neurostimulator Lead into Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H403Z	Insertion of Infusion Device into Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05H40DZ	Insertion of Intraluminal Device into Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05H40MZ	Insertion of Neurostimulator Lead into Left Innominate Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05H43DZ	Insertion of Intraluminal Device into Left Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05H443Z	Insertion of Infusion Device into Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H44DZ	Insertion of Intraluminal Device into Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H44MZ	Insertion of Neurostimulator Lead into Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H503Z	Insertion of Infusion Device into Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05H50DZ	Insertion of Intraluminal Device into Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05H53DZ	Insertion of Intraluminal Device into Right Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05H543Z	Insertion of Infusion Device into Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H54DZ	Insertion of Intraluminal Device into Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H603Z	Insertion of Infusion Device into Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05H60DZ	Insertion of Intraluminal Device into Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05H63DZ	Insertion of Intraluminal Device into Left Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05H643Z	Insertion of Infusion Device into Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H64DZ	Insertion of Intraluminal Device into Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H703Z	Insertion of Infusion Device into Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05H70DZ	Insertion of Intraluminal Device into Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05H73DZ	Insertion of Intraluminal Device into Right Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05H743Z	Insertion of Infusion Device into Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H74DZ	Insertion of Intraluminal Device into Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H803Z	Insertion of Infusion Device into Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05H80DZ	Insertion of Intraluminal Device into Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05H83DZ	Insertion of Intraluminal Device into Left Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05H843Z	Insertion of Infusion Device into Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H84DZ	Insertion of Intraluminal Device into Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05H903Z	Insertion of Infusion Device into Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05H90DZ	Insertion of Intraluminal Device into Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05H93DZ	Insertion of Intraluminal Device into Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05H943Z	Insertion of Infusion Device into Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05H94DZ	Insertion of Intraluminal Device into Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HA03Z	Insertion of Infusion Device into Left Brachial Vein, Open Approach	PX	ICD-10-PCS
05HA0DZ	Insertion of Intraluminal Device into Left Brachial Vein, Open Approach	PX	ICD-10-PCS
05HA3DZ	Insertion of Intraluminal Device into Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05HA43Z	Insertion of Infusion Device into Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HA4DZ	Insertion of Intraluminal Device into Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HB03Z	Insertion of Infusion Device into Right Basilic Vein, Open Approach	PX	ICD-10-PCS
05HB0DZ	Insertion of Intraluminal Device into Right Basilic Vein, Open Approach	PX	ICD-10-PCS
05HB3DZ	Insertion of Intraluminal Device into Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05HB43Z	Insertion of Infusion Device into Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HB4DZ	Insertion of Intraluminal Device into Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HC03Z	Insertion of Infusion Device into Left Basilic Vein, Open Approach	PX	ICD-10-PCS
05HC0DZ	Insertion of Intraluminal Device into Left Basilic Vein, Open Approach	PX	ICD-10-PCS
05HC3DZ	Insertion of Intraluminal Device into Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05HC43Z	Insertion of Infusion Device into Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HC4DZ	Insertion of Intraluminal Device into Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HD03Z	Insertion of Infusion Device into Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
05HD0DZ	Insertion of Intraluminal Device into Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
05HD3DZ	Insertion of Intraluminal Device into Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05HD43Z	Insertion of Infusion Device into Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HD4DZ	Insertion of Intraluminal Device into Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HF03Z	Insertion of Infusion Device into Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
05HF0DZ	Insertion of Intraluminal Device into Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
05HF3DZ	Insertion of Intraluminal Device into Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05HF43Z	Insertion of Infusion Device into Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HF4DZ	Insertion of Intraluminal Device into Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HG03Z	Insertion of Infusion Device into Right Hand Vein, Open Approach	PX	ICD-10-PCS
05HG0DZ	Insertion of Intraluminal Device into Right Hand Vein, Open Approach	PX	ICD-10-PCS
05HG3DZ	Insertion of Intraluminal Device into Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05HG43Z	Insertion of Infusion Device into Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HG4DZ	Insertion of Intraluminal Device into Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05HH03Z	Insertion of Infusion Device into Left Hand Vein, Open Approach	PX	ICD-10-PCS
05HH0DZ	Insertion of Intraluminal Device into Left Hand Vein, Open Approach	PX	ICD-10-PCS
05HH3DZ	Insertion of Intraluminal Device into Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05HH43Z	Insertion of Infusion Device into Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HH4DZ	Insertion of Intraluminal Device into Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HL03Z	Insertion of Infusion Device into Intracranial Vein, Open Approach	PX	ICD-10-PCS
05HL0DZ	Insertion of Intraluminal Device into Intracranial Vein, Open Approach	PX	ICD-10-PCS
05HL3DZ	Insertion of Intraluminal Device into Intracranial Vein, Percutaneous Approach	PX	ICD-10-PCS
05HL43Z	Insertion of Infusion Device into Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HL4DZ	Insertion of Intraluminal Device into Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HM03Z	Insertion of Infusion Device into Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05HM0DZ	Insertion of Intraluminal Device into Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05HM3DZ	Insertion of Intraluminal Device into Right Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05HM43Z	Insertion of Infusion Device into Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HM4DZ	Insertion of Intraluminal Device into Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HN03Z	Insertion of Infusion Device into Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05HN0DZ	Insertion of Intraluminal Device into Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05HN3DZ	Insertion of Intraluminal Device into Left Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05HN43Z	Insertion of Infusion Device into Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HN4DZ	Insertion of Intraluminal Device into Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HP03Z	Insertion of Infusion Device into Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
05HP0DZ	Insertion of Intraluminal Device into Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
05HP3DZ	Insertion of Intraluminal Device into Right External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05HP43Z	Insertion of Infusion Device into Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HP4DZ	Insertion of Intraluminal Device into Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HQ03Z	Insertion of Infusion Device into Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
05HQ0DZ	Insertion of Intraluminal Device into Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
05HQ3DZ	Insertion of Intraluminal Device into Left External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05HQ43Z	Insertion of Infusion Device into Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05HQ4DZ	Insertion of Intraluminal Device into Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HR03Z	Insertion of Infusion Device into Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
05HR0DZ	Insertion of Intraluminal Device into Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
05HR3DZ	Insertion of Intraluminal Device into Right Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05HR43Z	Insertion of Infusion Device into Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HR4DZ	Insertion of Intraluminal Device into Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HS03Z	Insertion of Infusion Device into Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
05HS0DZ	Insertion of Intraluminal Device into Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
05HS3DZ	Insertion of Intraluminal Device into Left Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05HS43Z	Insertion of Infusion Device into Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HS4DZ	Insertion of Intraluminal Device into Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HT03Z	Insertion of Infusion Device into Right Face Vein, Open Approach	PX	ICD-10-PCS
05HT0DZ	Insertion of Intraluminal Device into Right Face Vein, Open Approach	PX	ICD-10-PCS
05HT3DZ	Insertion of Intraluminal Device into Right Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05HT43Z	Insertion of Infusion Device into Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HT4DZ	Insertion of Intraluminal Device into Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HV03Z	Insertion of Infusion Device into Left Face Vein, Open Approach	PX	ICD-10-PCS
05HV0DZ	Insertion of Intraluminal Device into Left Face Vein, Open Approach	PX	ICD-10-PCS
05HV3DZ	Insertion of Intraluminal Device into Left Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05HV43Z	Insertion of Infusion Device into Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HV4DZ	Insertion of Intraluminal Device into Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HY03Z	Insertion of Infusion Device into Upper Vein, Open Approach	PX	ICD-10-PCS
05HY0DZ	Insertion of Intraluminal Device into Upper Vein, Open Approach	PX	ICD-10-PCS
05HY0YZ	Insertion of Other Device into Upper Vein, Open Approach	PX	ICD-10-PCS
05HY3DZ	Insertion of Intraluminal Device into Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05HY43Z	Insertion of Infusion Device into Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HY4DZ	Insertion of Intraluminal Device into Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05HY4YZ	Insertion of Other Device into Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L00CZ	Occlusion of Azygos Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05L00DZ	Occlusion of Azygos Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05L00ZZ	Occlusion of Azygos Vein, Open Approach	PX	ICD-10-PCS
05L03CZ	Occlusion of Azygos Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05L03DZ	Occlusion of Azygos Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L03ZZ	Occlusion of Azygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05L04CZ	Occlusion of Azygos Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L04DZ	Occlusion of Azygos Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L04ZZ	Occlusion of Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L10CZ	Occlusion of Hemiazygos Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05L10DZ	Occlusion of Hemiazygos Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05L10ZZ	Occlusion of Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05L13CZ	Occlusion of Hemiazygos Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L13DZ	Occlusion of Hemiazygos Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L13ZZ	Occlusion of Hemiazygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05L14CZ	Occlusion of Hemiazygos Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L14DZ	Occlusion of Hemiazygos Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L14ZZ	Occlusion of Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L30CZ	Occlusion of Right Innominate Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05L30DZ	Occlusion of Right Innominate Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05L30ZZ	Occlusion of Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05L33CZ	Occlusion of Right Innominate Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L33DZ	Occlusion of Right Innominate Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L33ZZ	Occlusion of Right Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05L34CZ	Occlusion of Right Innominate Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L34DZ	Occlusion of Right Innominate Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L34ZZ	Occlusion of Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L40CZ	Occlusion of Left Innominate Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05L40DZ	Occlusion of Left Innominate Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05L40ZZ	Occlusion of Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05L43CZ	Occlusion of Left Innominate Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L43DZ	Occlusion of Left Innominate Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L43ZZ	Occlusion of Left Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05L44CZ	Occlusion of Left Innominate Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L44DZ	Occlusion of Left Innominate Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L44ZZ	Occlusion of Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L50CZ	Occlusion of Right Subclavian Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05L50DZ	Occlusion of Right Subclavian Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05L50ZZ	Occlusion of Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05L53CZ	Occlusion of Right Subclavian Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L53DZ	Occlusion of Right Subclavian Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L53ZZ	Occlusion of Right Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05L54CZ	Occlusion of Right Subclavian Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L54DZ	Occlusion of Right Subclavian Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L54ZZ	Occlusion of Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L60CZ	Occlusion of Left Subclavian Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05L60DZ	Occlusion of Left Subclavian Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05L60ZZ	Occlusion of Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05L63CZ	Occlusion of Left Subclavian Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L63DZ	Occlusion of Left Subclavian Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L63ZZ	Occlusion of Left Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05L64CZ	Occlusion of Left Subclavian Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L64DZ	Occlusion of Left Subclavian Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L64ZZ	Occlusion of Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L70CZ	Occlusion of Right Axillary Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05L70DZ	Occlusion of Right Axillary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05L70ZZ	Occlusion of Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05L73CZ	Occlusion of Right Axillary Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L73DZ	Occlusion of Right Axillary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L73ZZ	Occlusion of Right Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05L74CZ	Occlusion of Right Axillary Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L74DZ	Occlusion of Right Axillary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L74ZZ	Occlusion of Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L80CZ	Occlusion of Left Axillary Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05L80DZ	Occlusion of Left Axillary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05L80ZZ	Occlusion of Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05L83CZ	Occlusion of Left Axillary Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L83DZ	Occlusion of Left Axillary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L83ZZ	Occlusion of Left Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05L84CZ	Occlusion of Left Axillary Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L84DZ	Occlusion of Left Axillary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L84ZZ	Occlusion of Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L90CZ	Occlusion of Right Brachial Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05L90DZ	Occlusion of Right Brachial Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05L90ZZ	Occlusion of Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05L93CZ	Occlusion of Right Brachial Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L93DZ	Occlusion of Right Brachial Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05L93ZZ	Occlusion of Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05L94CZ	Occlusion of Right Brachial Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L94DZ	Occlusion of Right Brachial Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05L94ZZ	Occlusion of Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LA0CZ	Occlusion of Left Brachial Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LA0DZ	Occlusion of Left Brachial Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LA0ZZ	Occlusion of Left Brachial Vein, Open Approach	PX	ICD-10-PCS
05LA3CZ	Occlusion of Left Brachial Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LA3DZ	Occlusion of Left Brachial Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LA3ZZ	Occlusion of Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05LA4CZ	Occlusion of Left Brachial Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LA4DZ	Occlusion of Left Brachial Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LA4ZZ	Occlusion of Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LB0CZ	Occlusion of Right Basilic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LB0DZ	Occlusion of Right Basilic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LB0ZZ	Occlusion of Right Basilic Vein, Open Approach	PX	ICD-10-PCS
05LB3CZ	Occlusion of Right Basilic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LB3DZ	Occlusion of Right Basilic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LB3ZZ	Occlusion of Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05LB4CZ	Occlusion of Right Basilic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LB4DZ	Occlusion of Right Basilic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LB4ZZ	Occlusion of Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LC0CZ	Occlusion of Left Basilic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LC0DZ	Occlusion of Left Basilic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LC0ZZ	Occlusion of Left Basilic Vein, Open Approach	PX	ICD-10-PCS
05LC3CZ	Occlusion of Left Basilic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05LC3DZ	Occlusion of Left Basilic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LC3ZZ	Occlusion of Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05LC4CZ	Occlusion of Left Basilic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LC4DZ	Occlusion of Left Basilic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LC4ZZ	Occlusion of Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LD0CZ	Occlusion of Right Cephalic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LD0DZ	Occlusion of Right Cephalic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LD0ZZ	Occlusion of Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
05LD3CZ	Occlusion of Right Cephalic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LD3DZ	Occlusion of Right Cephalic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LD3ZZ	Occlusion of Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05LD4CZ	Occlusion of Right Cephalic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LD4DZ	Occlusion of Right Cephalic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LD4ZZ	Occlusion of Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LF0CZ	Occlusion of Left Cephalic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LF0DZ	Occlusion of Left Cephalic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LF0ZZ	Occlusion of Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
05LF3CZ	Occlusion of Left Cephalic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LF3DZ	Occlusion of Left Cephalic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LF3ZZ	Occlusion of Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05LF4CZ	Occlusion of Left Cephalic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LF4DZ	Occlusion of Left Cephalic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LF4ZZ	Occlusion of Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LG0CZ	Occlusion of Right Hand Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LG0DZ	Occlusion of Right Hand Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LG0ZZ	Occlusion of Right Hand Vein, Open Approach	PX	ICD-10-PCS
05LG3CZ	Occlusion of Right Hand Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LG3DZ	Occlusion of Right Hand Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LG3ZZ	Occlusion of Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05LG4CZ	Occlusion of Right Hand Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LG4DZ	Occlusion of Right Hand Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LG4ZZ	Occlusion of Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LH0CZ	Occlusion of Left Hand Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05LH0DZ	Occlusion of Left Hand Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LH0ZZ	Occlusion of Left Hand Vein, Open Approach	PX	ICD-10-PCS
05LH3CZ	Occlusion of Left Hand Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LH3DZ	Occlusion of Left Hand Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LH3ZZ	Occlusion of Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05LH4CZ	Occlusion of Left Hand Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LH4DZ	Occlusion of Left Hand Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LH4ZZ	Occlusion of Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LL0CZ	Occlusion of Intracranial Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LL0DZ	Occlusion of Intracranial Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LL0ZZ	Occlusion of Intracranial Vein, Open Approach	PX	ICD-10-PCS
05LL3CZ	Occlusion of Intracranial Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LL3DZ	Occlusion of Intracranial Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LL3ZZ	Occlusion of Intracranial Vein, Percutaneous Approach	PX	ICD-10-PCS
05LL4CZ	Occlusion of Intracranial Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LL4DZ	Occlusion of Intracranial Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LL4ZZ	Occlusion of Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LM0CZ	Occlusion of Right Internal Jugular Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LM0DZ	Occlusion of Right Internal Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LM0ZZ	Occlusion of Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05LM3CZ	Occlusion of Right Internal Jugular Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LM3DZ	Occlusion of Right Internal Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LM3ZZ	Occlusion of Right Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05LM4CZ	Occlusion of Right Internal Jugular Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LM4DZ	Occlusion of Right Internal Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LM4ZZ	Occlusion of Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LN0CZ	Occlusion of Left Internal Jugular Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LN0DZ	Occlusion of Left Internal Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LN0ZZ	Occlusion of Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05LN3CZ	Occlusion of Left Internal Jugular Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LN3DZ	Occlusion of Left Internal Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LN3ZZ	Occlusion of Left Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05LN4CZ	Occlusion of Left Internal Jugular Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LN4DZ	Occlusion of Left Internal Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LN4ZZ	Occlusion of Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LP0CZ	Occlusion of Right External Jugular Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LP0DZ	Occlusion of Right External Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LP0ZZ	Occlusion of Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
05LP3CZ	Occlusion of Right External Jugular Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LP3DZ	Occlusion of Right External Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LP3ZZ	Occlusion of Right External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05LP4CZ	Occlusion of Right External Jugular Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LP4DZ	Occlusion of Right External Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LP4ZZ	Occlusion of Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LQ0CZ	Occlusion of Left External Jugular Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LQ0DZ	Occlusion of Left External Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LQ0ZZ	Occlusion of Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
05LQ3CZ	Occlusion of Left External Jugular Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LQ3DZ	Occlusion of Left External Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LQ3ZZ	Occlusion of Left External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05LQ4CZ	Occlusion of Left External Jugular Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LQ4DZ	Occlusion of Left External Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LQ4ZZ	Occlusion of Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LR0CZ	Occlusion of Right Vertebral Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LR0DZ	Occlusion of Right Vertebral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LR0ZZ	Occlusion of Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
05LR3CZ	Occlusion of Right Vertebral Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LR3DZ	Occlusion of Right Vertebral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LR3ZZ	Occlusion of Right Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05LR4CZ	Occlusion of Right Vertebral Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LR4DZ	Occlusion of Right Vertebral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05LR4ZZ	Occlusion of Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LS0CZ	Occlusion of Left Vertebral Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LS0DZ	Occlusion of Left Vertebral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LS0ZZ	Occlusion of Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
05LS3CZ	Occlusion of Left Vertebral Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LS3DZ	Occlusion of Left Vertebral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LS3ZZ	Occlusion of Left Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05LS4CZ	Occlusion of Left Vertebral Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LS4DZ	Occlusion of Left Vertebral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LS4ZZ	Occlusion of Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LT0CZ	Occlusion of Right Face Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LT0DZ	Occlusion of Right Face Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LT0ZZ	Occlusion of Right Face Vein, Open Approach	PX	ICD-10-PCS
05LT3CZ	Occlusion of Right Face Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LT3DZ	Occlusion of Right Face Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LT3ZZ	Occlusion of Right Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05LT4CZ	Occlusion of Right Face Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LT4DZ	Occlusion of Right Face Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LT4ZZ	Occlusion of Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LV0CZ	Occlusion of Left Face Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LV0DZ	Occlusion of Left Face Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LV0ZZ	Occlusion of Left Face Vein, Open Approach	PX	ICD-10-PCS
05LV3CZ	Occlusion of Left Face Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LV3DZ	Occlusion of Left Face Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LV3ZZ	Occlusion of Left Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05LV4CZ	Occlusion of Left Face Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LV4DZ	Occlusion of Left Face Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LV4ZZ	Occlusion of Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LY0CZ	Occlusion of Upper Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05LY0DZ	Occlusion of Upper Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05LY0ZZ	Occlusion of Upper Vein, Open Approach	PX	ICD-10-PCS
05LY3CZ	Occlusion of Upper Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LY3DZ	Occlusion of Upper Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05LY3ZZ	Occlusion of Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05LY4CZ	Occlusion of Upper Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05LY4DZ	Occlusion of Upper Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05LY4ZZ	Occlusion of Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05N00ZZ	Release Azygos Vein, Open Approach	PX	ICD-10-PCS
05N03ZZ	Release Azygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05N04ZZ	Release Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05N10ZZ	Release Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05N13ZZ	Release Hemiazygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05N14ZZ	Release Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05N30ZZ	Release Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05N33ZZ	Release Right Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05N34ZZ	Release Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05N40ZZ	Release Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05N43ZZ	Release Left Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05N44ZZ	Release Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05N50ZZ	Release Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05N53ZZ	Release Right Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05N54ZZ	Release Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05N60ZZ	Release Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05N63ZZ	Release Left Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05N64ZZ	Release Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05N70ZZ	Release Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05N73ZZ	Release Right Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05N74ZZ	Release Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05N80ZZ	Release Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05N83ZZ	Release Left Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05N84ZZ	Release Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05N90ZZ	Release Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05N93ZZ	Release Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05N94ZZ	Release Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NA0ZZ	Release Left Brachial Vein, Open Approach	PX	ICD-10-PCS
05NA3ZZ	Release Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05NA4ZZ	Release Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NB0ZZ	Release Right Basilic Vein, Open Approach	PX	ICD-10-PCS
05NB3ZZ	Release Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05NB4ZZ	Release Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NC0ZZ	Release Left Basilic Vein, Open Approach	PX	ICD-10-PCS
05NC3ZZ	Release Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05NC4ZZ	Release Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05ND0ZZ	Release Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
05ND3ZZ	Release Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05ND4ZZ	Release Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NF0ZZ	Release Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
05NF3ZZ	Release Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05NF4ZZ	Release Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05NG0ZZ	Release Right Hand Vein, Open Approach	PX	ICD-10-PCS
05NG3ZZ	Release Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05NG4ZZ	Release Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NH0ZZ	Release Left Hand Vein, Open Approach	PX	ICD-10-PCS
05NH3ZZ	Release Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05NH4ZZ	Release Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NL0ZZ	Release Intracranial Vein, Open Approach	PX	ICD-10-PCS
05NL3ZZ	Release Intracranial Vein, Percutaneous Approach	PX	ICD-10-PCS
05NL4ZZ	Release Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NM0ZZ	Release Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05NM3ZZ	Release Right Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05NM4ZZ	Release Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NN0ZZ	Release Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05NN3ZZ	Release Left Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05NN4ZZ	Release Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NP0ZZ	Release Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
05NP3ZZ	Release Right External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05NP4ZZ	Release Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NQ0ZZ	Release Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
05NQ3ZZ	Release Left External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05NQ4ZZ	Release Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NR0ZZ	Release Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
05NR3ZZ	Release Right Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05NR4ZZ	Release Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NS0ZZ	Release Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
05NS3ZZ	Release Left Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05NS4ZZ	Release Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NT0ZZ	Release Right Face Vein, Open Approach	PX	ICD-10-PCS
05NT3ZZ	Release Right Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05NT4ZZ	Release Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NV0ZZ	Release Left Face Vein, Open Approach	PX	ICD-10-PCS
05NV3ZZ	Release Left Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05NV4ZZ	Release Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05NY0ZZ	Release Upper Vein, Open Approach	PX	ICD-10-PCS
05NY3ZZ	Release Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05NY4ZZ	Release Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05P002Z	Removal of Monitoring Device from Azygos Vein, Open Approach	PX	ICD-10-PCS
05P00MZ	Removal of Neurostimulator Lead from Azygos Vein, Open Approach	PX	ICD-10-PCS
05P042Z	Removal of Monitoring Device from Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05P04MZ	Removal of Neurostimulator Lead from Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05P30MZ	Removal of Neurostimulator Lead from Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05P34MZ	Removal of Neurostimulator Lead from Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05P40MZ	Removal of Neurostimulator Lead from Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05P44MZ	Removal of Neurostimulator Lead from Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05PY00Z	Removal of Drainage Device from Upper Vein, Open Approach	PX	ICD-10-PCS
05PY02Z	Removal of Monitoring Device from Upper Vein, Open Approach	PX	ICD-10-PCS
05PY03Z	Removal of Infusion Device from Upper Vein, Open Approach	PX	ICD-10-PCS
05PY07Z	Removal of Autologous Tissue Substitute from Upper Vein, Open Approach	PX	ICD-10-PCS
05PY0CZ	Removal of Extraluminal Device from Upper Vein, Open Approach	PX	ICD-10-PCS
05PY0DZ	Removal of Intraluminal Device from Upper Vein, Open Approach	PX	ICD-10-PCS
05PY0JZ	Removal of Synthetic Substitute from Upper Vein, Open Approach	PX	ICD-10-PCS
05PY0KZ	Removal of Nonautologous Tissue Substitute from Upper Vein, Open Approach	PX	ICD-10-PCS
05PY0YZ	Removal of Other Device from Upper Vein, Open Approach	PX	ICD-10-PCS
05PY37Z	Removal of Autologous Tissue Substitute from Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05PY3CZ	Removal of Extraluminal Device from Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05PY3JZ	Removal of Synthetic Substitute from Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05PY3KZ	Removal of Nonautologous Tissue Substitute from Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05PY40Z	Removal of Drainage Device from Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05PY42Z	Removal of Monitoring Device from Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05PY43Z	Removal of Infusion Device from Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05PY47Z	Removal of Autologous Tissue Substitute from Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05PY4CZ	Removal of Extraluminal Device from Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05PY4DZ	Removal of Intraluminal Device from Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05PY4JZ	Removal of Synthetic Substitute from Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05PY4KZ	Removal of Nonautologous Tissue Substitute from Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05PY4YZ	Removal of Other Device from Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05Q00ZZ	Repair Azygos Vein, Open Approach	PX	ICD-10-PCS
05Q03ZZ	Repair Azygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05Q04ZZ	Repair Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05Q10ZZ	Repair Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05Q13ZZ	Repair Hemiazygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05Q14ZZ	Repair Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05Q30ZZ	Repair Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05Q33ZZ	Repair Right Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05Q34ZZ	Repair Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05Q40ZZ	Repair Left Innominate Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05Q43ZZ	Repair Left Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05Q44ZZ	Repair Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05Q50ZZ	Repair Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05Q53ZZ	Repair Right Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05Q54ZZ	Repair Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05Q60ZZ	Repair Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05Q63ZZ	Repair Left Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05Q64ZZ	Repair Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05Q70ZZ	Repair Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05Q73ZZ	Repair Right Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05Q74ZZ	Repair Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05Q80ZZ	Repair Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05Q83ZZ	Repair Left Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05Q84ZZ	Repair Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05Q90ZZ	Repair Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05Q93ZZ	Repair Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05Q94ZZ	Repair Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QA0ZZ	Repair Left Brachial Vein, Open Approach	PX	ICD-10-PCS
05QA3ZZ	Repair Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05QA4ZZ	Repair Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QB0ZZ	Repair Right Basilic Vein, Open Approach	PX	ICD-10-PCS
05QB3ZZ	Repair Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05QB4ZZ	Repair Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QC0ZZ	Repair Left Basilic Vein, Open Approach	PX	ICD-10-PCS
05QC3ZZ	Repair Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05QC4ZZ	Repair Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QD0ZZ	Repair Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
05QD3ZZ	Repair Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05QD4ZZ	Repair Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QF0ZZ	Repair Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
05QF3ZZ	Repair Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05QF4ZZ	Repair Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QG0ZZ	Repair Right Hand Vein, Open Approach	PX	ICD-10-PCS
05QG3ZZ	Repair Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05QG4ZZ	Repair Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QH0ZZ	Repair Left Hand Vein, Open Approach	PX	ICD-10-PCS
05QH3ZZ	Repair Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05QH4ZZ	Repair Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QL0ZZ	Repair Intracranial Vein, Open Approach	PX	ICD-10-PCS
05QL3ZZ	Repair Intracranial Vein, Percutaneous Approach	PX	ICD-10-PCS
05QL4ZZ	Repair Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QM0ZZ	Repair Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05QM3ZZ	Repair Right Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05QM4ZZ	Repair Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QN0ZZ	Repair Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05QN3ZZ	Repair Left Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05QN4ZZ	Repair Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QP0ZZ	Repair Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
05QP3ZZ	Repair Right External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05QP4ZZ	Repair Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QQ0ZZ	Repair Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
05QQ3ZZ	Repair Left External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05QQ4ZZ	Repair Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QR0ZZ	Repair Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
05QR3ZZ	Repair Right Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05QR4ZZ	Repair Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QS0ZZ	Repair Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
05QS3ZZ	Repair Left Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05QS4ZZ	Repair Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QT0ZZ	Repair Right Face Vein, Open Approach	PX	ICD-10-PCS
05QT3ZZ	Repair Right Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05QT4ZZ	Repair Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QV0ZZ	Repair Left Face Vein, Open Approach	PX	ICD-10-PCS
05QV3ZZ	Repair Left Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05QV4ZZ	Repair Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05QY0ZZ	Repair Upper Vein, Open Approach	PX	ICD-10-PCS
05QY3ZZ	Repair Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05QY4ZZ	Repair Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R007Z	Replacement of Azygos Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R00JZ	Replacement of Azygos Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05R00KZ	Replacement of Azygos Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R047Z	Replacement of Azygos Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R04JZ	Replacement of Azygos Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R04KZ	Replacement of Azygos Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R107Z	Replacement of Hemiazygos Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R10JZ	Replacement of Hemiazygos Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05R10KZ	Replacement of Hemiazygos Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R147Z	Replacement of Hemiazygos Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R14JZ	Replacement of Hemiazygos Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R14KZ	Replacement of Hemiazygos Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05R307Z	Replacement of Right Innominate Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R30JZ	Replacement of Right Innominate Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05R30KZ	Replacement of Right Innominate Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R347Z	Replacement of Right Innominate Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R34JZ	Replacement of Right Innominate Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R34KZ	Replacement of Right Innominate Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R407Z	Replacement of Left Innominate Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R40JZ	Replacement of Left Innominate Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05R40KZ	Replacement of Left Innominate Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R447Z	Replacement of Left Innominate Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R44JZ	Replacement of Left Innominate Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R44KZ	Replacement of Left Innominate Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R507Z	Replacement of Right Subclavian Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R50JZ	Replacement of Right Subclavian Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05R50KZ	Replacement of Right Subclavian Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R547Z	Replacement of Right Subclavian Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R54JZ	Replacement of Right Subclavian Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R54KZ	Replacement of Right Subclavian Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R607Z	Replacement of Left Subclavian Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R60JZ	Replacement of Left Subclavian Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05R60KZ	Replacement of Left Subclavian Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R647Z	Replacement of Left Subclavian Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R64JZ	Replacement of Left Subclavian Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R64KZ	Replacement of Left Subclavian Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05R707Z	Replacement of Right Axillary Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R70JZ	Replacement of Right Axillary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05R70KZ	Replacement of Right Axillary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R747Z	Replacement of Right Axillary Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R74JZ	Replacement of Right Axillary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R74KZ	Replacement of Right Axillary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R807Z	Replacement of Left Axillary Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R80JZ	Replacement of Left Axillary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05R80KZ	Replacement of Left Axillary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R847Z	Replacement of Left Axillary Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R84JZ	Replacement of Left Axillary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R84KZ	Replacement of Left Axillary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R907Z	Replacement of Right Brachial Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R90JZ	Replacement of Right Brachial Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05R90KZ	Replacement of Right Brachial Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05R947Z	Replacement of Right Brachial Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R94JZ	Replacement of Right Brachial Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05R94KZ	Replacement of Right Brachial Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RA07Z	Replacement of Left Brachial Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RA0JZ	Replacement of Left Brachial Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RA0KZ	Replacement of Left Brachial Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RA47Z	Replacement of Left Brachial Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RA4JZ	Replacement of Left Brachial Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RA4KZ	Replacement of Left Brachial Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05RB07Z	Replacement of Right Basilic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RB0JZ	Replacement of Right Basilic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RB0KZ	Replacement of Right Basilic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RB47Z	Replacement of Right Basilic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RB4JZ	Replacement of Right Basilic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RB4KZ	Replacement of Right Basilic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RC07Z	Replacement of Left Basilic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RC0JZ	Replacement of Left Basilic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RC0KZ	Replacement of Left Basilic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RC47Z	Replacement of Left Basilic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RC4JZ	Replacement of Left Basilic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RC4KZ	Replacement of Left Basilic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RD07Z	Replacement of Right Cephalic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RD0JZ	Replacement of Right Cephalic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RD0KZ	Replacement of Right Cephalic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RD47Z	Replacement of Right Cephalic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RD4JZ	Replacement of Right Cephalic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RD4KZ	Replacement of Right Cephalic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RF07Z	Replacement of Left Cephalic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RF0JZ	Replacement of Left Cephalic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RF0KZ	Replacement of Left Cephalic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RF47Z	Replacement of Left Cephalic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RF4JZ	Replacement of Left Cephalic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RF4KZ	Replacement of Left Cephalic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05RG07Z	Replacement of Right Hand Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RG0JZ	Replacement of Right Hand Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RG0KZ	Replacement of Right Hand Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RG47Z	Replacement of Right Hand Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RG4JZ	Replacement of Right Hand Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RG4KZ	Replacement of Right Hand Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RH07Z	Replacement of Left Hand Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RH0JZ	Replacement of Left Hand Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RH0KZ	Replacement of Left Hand Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RH47Z	Replacement of Left Hand Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RH4JZ	Replacement of Left Hand Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RH4KZ	Replacement of Left Hand Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RL07Z	Replacement of Intracranial Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RL0JZ	Replacement of Intracranial Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RL0KZ	Replacement of Intracranial Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RL47Z	Replacement of Intracranial Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RL4JZ	Replacement of Intracranial Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RL4KZ	Replacement of Intracranial Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RM07Z	Replacement of Right Internal Jugular Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RM0JZ	Replacement of Right Internal Jugular Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RM0KZ	Replacement of Right Internal Jugular Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RM47Z	Replacement of Right Internal Jugular Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RM4JZ	Replacement of Right Internal Jugular Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RM4KZ	Replacement of Right Internal Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05RN07Z	Replacement of Left Internal Jugular Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RN0JZ	Replacement of Left Internal Jugular Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RN0KZ	Replacement of Left Internal Jugular Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RN47Z	Replacement of Left Internal Jugular Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RN4JZ	Replacement of Left Internal Jugular Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RN4KZ	Replacement of Left Internal Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RP07Z	Replacement of Right External Jugular Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RP0JZ	Replacement of Right External Jugular Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RP0KZ	Replacement of Right External Jugular Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RP47Z	Replacement of Right External Jugular Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RP4JZ	Replacement of Right External Jugular Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RP4KZ	Replacement of Right External Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RQ07Z	Replacement of Left External Jugular Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RQ0JZ	Replacement of Left External Jugular Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RQ0KZ	Replacement of Left External Jugular Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RQ47Z	Replacement of Left External Jugular Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RQ4JZ	Replacement of Left External Jugular Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RQ4KZ	Replacement of Left External Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RR07Z	Replacement of Right Vertebral Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RR0JZ	Replacement of Right Vertebral Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RR0KZ	Replacement of Right Vertebral Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RR47Z	Replacement of Right Vertebral Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RR4JZ	Replacement of Right Vertebral Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05RR4KZ	Replacement of Right Vertebral Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RS07Z	Replacement of Left Vertebral Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RS0JZ	Replacement of Left Vertebral Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RS0KZ	Replacement of Left Vertebral Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RS47Z	Replacement of Left Vertebral Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RS4JZ	Replacement of Left Vertebral Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RS4KZ	Replacement of Left Vertebral Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RT07Z	Replacement of Right Face Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RT0JZ	Replacement of Right Face Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RT0KZ	Replacement of Right Face Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RT47Z	Replacement of Right Face Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RT4JZ	Replacement of Right Face Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RT4KZ	Replacement of Right Face Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RV07Z	Replacement of Left Face Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RV0JZ	Replacement of Left Face Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RV0KZ	Replacement of Left Face Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RV47Z	Replacement of Left Face Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RV4JZ	Replacement of Left Face Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RV4KZ	Replacement of Left Face Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RY07Z	Replacement of Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RY0JZ	Replacement of Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05RY0KZ	Replacement of Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05RY47Z	Replacement of Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RY4JZ	Replacement of Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05RY4KZ	Replacement of Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05S00ZZ	Reposition Azygos Vein, Open Approach	PX	ICD-10-PCS
05S03ZZ	Reposition Azygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05S04ZZ	Reposition Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05S10ZZ	Reposition Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05S13ZZ	Reposition Hemiazygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05S14ZZ	Reposition Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05S30ZZ	Reposition Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05S33ZZ	Reposition Right Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05S34ZZ	Reposition Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05S40ZZ	Reposition Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05S43ZZ	Reposition Left Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05S44ZZ	Reposition Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05S50ZZ	Reposition Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05S53ZZ	Reposition Right Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05S54ZZ	Reposition Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05S60ZZ	Reposition Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05S63ZZ	Reposition Left Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05S64ZZ	Reposition Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05S70ZZ	Reposition Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05S73ZZ	Reposition Right Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05S74ZZ	Reposition Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05S80ZZ	Reposition Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05S83ZZ	Reposition Left Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05S84ZZ	Reposition Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05S90ZZ	Reposition Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05S93ZZ	Reposition Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05S94ZZ	Reposition Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SA0ZZ	Reposition Left Brachial Vein, Open Approach	PX	ICD-10-PCS
05SA3ZZ	Reposition Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05SA4ZZ	Reposition Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SB0ZZ	Reposition Right Basilic Vein, Open Approach	PX	ICD-10-PCS
05SB3ZZ	Reposition Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05SB4ZZ	Reposition Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SC0ZZ	Reposition Left Basilic Vein, Open Approach	PX	ICD-10-PCS
05SC3ZZ	Reposition Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05SC4ZZ	Reposition Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SD0ZZ	Reposition Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
05SD3ZZ	Reposition Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05SD4ZZ	Reposition Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SF0ZZ	Reposition Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
05SF3ZZ	Reposition Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05SF4ZZ	Reposition Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SG0ZZ	Reposition Right Hand Vein, Open Approach	PX	ICD-10-PCS
05SG3ZZ	Reposition Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05SG4ZZ	Reposition Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05SH0ZZ	Reposition Left Hand Vein, Open Approach	PX	ICD-10-PCS
05SH3ZZ	Reposition Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05SH4ZZ	Reposition Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SL0ZZ	Reposition Intracranial Vein, Open Approach	PX	ICD-10-PCS
05SL3ZZ	Reposition Intracranial Vein, Percutaneous Approach	PX	ICD-10-PCS
05SL4ZZ	Reposition Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SM0ZZ	Reposition Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05SM3ZZ	Reposition Right Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05SM4ZZ	Reposition Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SN0ZZ	Reposition Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05SN3ZZ	Reposition Left Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05SN4ZZ	Reposition Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SP0ZZ	Reposition Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
05SP3ZZ	Reposition Right External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05SP4ZZ	Reposition Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SQ0ZZ	Reposition Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
05SQ3ZZ	Reposition Left External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05SQ4ZZ	Reposition Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SR0ZZ	Reposition Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
05SR3ZZ	Reposition Right Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05SR4ZZ	Reposition Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SS0ZZ	Reposition Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
05SS3ZZ	Reposition Left Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05SS4ZZ	Reposition Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05ST0ZZ	Reposition Right Face Vein, Open Approach	PX	ICD-10-PCS
05ST3ZZ	Reposition Right Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05ST4ZZ	Reposition Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SV0ZZ	Reposition Left Face Vein, Open Approach	PX	ICD-10-PCS
05SV3ZZ	Reposition Left Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05SV4ZZ	Reposition Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05SY0ZZ	Reposition Upper Vein, Open Approach	PX	ICD-10-PCS
05SY3ZZ	Reposition Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05SY4ZZ	Reposition Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U007Z	Supplement Azygos Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U00JZ	Supplement Azygos Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05U00KZ	Supplement Azygos Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U037Z	Supplement Azygos Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U03JZ	Supplement Azygos Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U03KZ	Supplement Azygos Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U047Z	Supplement Azygos Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U04JZ	Supplement Azygos Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05U04KZ	Supplement Azygos Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U107Z	Supplement Hemiazygos Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U10JZ	Supplement Hemiazygos Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05U10KZ	Supplement Hemiazygos Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U137Z	Supplement Hemiazygos Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U13JZ	Supplement Hemiazygos Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U13KZ	Supplement Hemiazygos Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U147Z	Supplement Hemiazygos Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U14JZ	Supplement Hemiazygos Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U14KZ	Supplement Hemiazygos Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U307Z	Supplement Right Innominate Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U30JZ	Supplement Right Innominate Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05U30KZ	Supplement Right Innominate Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U337Z	Supplement Right Innominate Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U33JZ	Supplement Right Innominate Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U33KZ	Supplement Right Innominate Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U347Z	Supplement Right Innominate Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U34JZ	Supplement Right Innominate Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U34KZ	Supplement Right Innominate Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U407Z	Supplement Left Innominate Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U40JZ	Supplement Left Innominate Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05U40KZ	Supplement Left Innominate Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U437Z	Supplement Left Innominate Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U43JZ	Supplement Left Innominate Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05U43KZ	Supplement Left Innominate Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U447Z	Supplement Left Innominate Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U44JZ	Supplement Left Innominate Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U44KZ	Supplement Left Innominate Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U507Z	Supplement Right Subclavian Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U50JZ	Supplement Right Subclavian Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05U50KZ	Supplement Right Subclavian Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U537Z	Supplement Right Subclavian Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U53JZ	Supplement Right Subclavian Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U53KZ	Supplement Right Subclavian Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U547Z	Supplement Right Subclavian Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U54JZ	Supplement Right Subclavian Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U54KZ	Supplement Right Subclavian Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U607Z	Supplement Left Subclavian Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U60JZ	Supplement Left Subclavian Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05U60KZ	Supplement Left Subclavian Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U637Z	Supplement Left Subclavian Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U63JZ	Supplement Left Subclavian Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U63KZ	Supplement Left Subclavian Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U647Z	Supplement Left Subclavian Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U64JZ	Supplement Left Subclavian Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U64KZ	Supplement Left Subclavian Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U707Z	Supplement Right Axillary Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U70JZ	Supplement Right Axillary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05U70KZ	Supplement Right Axillary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U737Z	Supplement Right Axillary Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U73JZ	Supplement Right Axillary Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U73KZ	Supplement Right Axillary Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U747Z	Supplement Right Axillary Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U74JZ	Supplement Right Axillary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U74KZ	Supplement Right Axillary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U807Z	Supplement Left Axillary Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U80JZ	Supplement Left Axillary Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05U80KZ	Supplement Left Axillary Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U837Z	Supplement Left Axillary Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U83JZ	Supplement Left Axillary Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U83KZ	Supplement Left Axillary Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U847Z	Supplement Left Axillary Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U84JZ	Supplement Left Axillary Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U84KZ	Supplement Left Axillary Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U907Z	Supplement Right Brachial Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U90JZ	Supplement Right Brachial Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05U90KZ	Supplement Right Brachial Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05U937Z	Supplement Right Brachial Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U93JZ	Supplement Right Brachial Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U93KZ	Supplement Right Brachial Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05U947Z	Supplement Right Brachial Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05U94JZ	Supplement Right Brachial Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05U94KZ	Supplement Right Brachial Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UA07Z	Supplement Left Brachial Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UA0JZ	Supplement Left Brachial Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UA0KZ	Supplement Left Brachial Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UA37Z	Supplement Left Brachial Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UA3JZ	Supplement Left Brachial Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UA3KZ	Supplement Left Brachial Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UA47Z	Supplement Left Brachial Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UA4JZ	Supplement Left Brachial Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UA4KZ	Supplement Left Brachial Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UB07Z	Supplement Right Basilic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UB0JZ	Supplement Right Basilic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UB0KZ	Supplement Right Basilic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UB37Z	Supplement Right Basilic Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UB3JZ	Supplement Right Basilic Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UB3KZ	Supplement Right Basilic Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UB47Z	Supplement Right Basilic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UB4JZ	Supplement Right Basilic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UB4KZ	Supplement Right Basilic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UC07Z	Supplement Left Basilic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UC0JZ	Supplement Left Basilic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UC0KZ	Supplement Left Basilic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UC37Z	Supplement Left Basilic Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UC3JZ	Supplement Left Basilic Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UC3KZ	Supplement Left Basilic Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05UC47Z	Supplement Left Basilic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UC4JZ	Supplement Left Basilic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UC4KZ	Supplement Left Basilic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UD07Z	Supplement Right Cephalic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UD0JZ	Supplement Right Cephalic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UD0KZ	Supplement Right Cephalic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UD37Z	Supplement Right Cephalic Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UD3JZ	Supplement Right Cephalic Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UD3KZ	Supplement Right Cephalic Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UD47Z	Supplement Right Cephalic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UD4JZ	Supplement Right Cephalic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UD4KZ	Supplement Right Cephalic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UF07Z	Supplement Left Cephalic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UF0JZ	Supplement Left Cephalic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UF0KZ	Supplement Left Cephalic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UF37Z	Supplement Left Cephalic Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UF3JZ	Supplement Left Cephalic Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UF3KZ	Supplement Left Cephalic Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UF47Z	Supplement Left Cephalic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UF4JZ	Supplement Left Cephalic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UF4KZ	Supplement Left Cephalic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UG07Z	Supplement Right Hand Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UG0JZ	Supplement Right Hand Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UG0KZ	Supplement Right Hand Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05UG37Z	Supplement Right Hand Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UG3JZ	Supplement Right Hand Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UG3KZ	Supplement Right Hand Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UG47Z	Supplement Right Hand Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UG4JZ	Supplement Right Hand Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UG4KZ	Supplement Right Hand Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UH07Z	Supplement Left Hand Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UH0JZ	Supplement Left Hand Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UH0KZ	Supplement Left Hand Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UH37Z	Supplement Left Hand Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UH3JZ	Supplement Left Hand Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UH3KZ	Supplement Left Hand Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UH47Z	Supplement Left Hand Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UH4JZ	Supplement Left Hand Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UH4KZ	Supplement Left Hand Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UL07Z	Supplement Intracranial Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UL0JZ	Supplement Intracranial Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UL0KZ	Supplement Intracranial Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UL37Z	Supplement Intracranial Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UL3JZ	Supplement Intracranial Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UL3KZ	Supplement Intracranial Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UL47Z	Supplement Intracranial Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UL4JZ	Supplement Intracranial Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UL4KZ	Supplement Intracranial Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UM07Z	Supplement Right Internal Jugular Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05UM0JZ	Supplement Right Internal Jugular Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UM0KZ	Supplement Right Internal Jugular Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UM37Z	Supplement Right Internal Jugular Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UM3JZ	Supplement Right Internal Jugular Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UM3KZ	Supplement Right Internal Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UM47Z	Supplement Right Internal Jugular Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UM4JZ	Supplement Right Internal Jugular Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UM4KZ	Supplement Right Internal Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UN07Z	Supplement Left Internal Jugular Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UN0JZ	Supplement Left Internal Jugular Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UN0KZ	Supplement Left Internal Jugular Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UN37Z	Supplement Left Internal Jugular Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UN3JZ	Supplement Left Internal Jugular Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UN3KZ	Supplement Left Internal Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UN47Z	Supplement Left Internal Jugular Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UN4JZ	Supplement Left Internal Jugular Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UN4KZ	Supplement Left Internal Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UP07Z	Supplement Right External Jugular Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UP0JZ	Supplement Right External Jugular Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UP0KZ	Supplement Right External Jugular Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UP37Z	Supplement Right External Jugular Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UP3JZ	Supplement Right External Jugular Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UP3KZ	Supplement Right External Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
05UP47Z	Supplement Right External Jugular Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UP4JZ	Supplement Right External Jugular Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UP4KZ	Supplement Right External Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UQ07Z	Supplement Left External Jugular Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UQ0JZ	Supplement Left External Jugular Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UQ0KZ	Supplement Left External Jugular Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UQ37Z	Supplement Left External Jugular Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UQ3JZ	Supplement Left External Jugular Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UQ3KZ	Supplement Left External Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UQ47Z	Supplement Left External Jugular Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UQ4JZ	Supplement Left External Jugular Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UQ4KZ	Supplement Left External Jugular Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UR07Z	Supplement Right Vertebral Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UR0JZ	Supplement Right Vertebral Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UR0KZ	Supplement Right Vertebral Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UR37Z	Supplement Right Vertebral Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UR3JZ	Supplement Right Vertebral Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UR3KZ	Supplement Right Vertebral Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UR47Z	Supplement Right Vertebral Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UR4JZ	Supplement Right Vertebral Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UR4KZ	Supplement Right Vertebral Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05US07Z	Supplement Left Vertebral Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05US0JZ	Supplement Left Vertebral Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05US0KZ	Supplement Left Vertebral Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05US37Z	Supplement Left Vertebral Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05US3JZ	Supplement Left Vertebral Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05US3KZ	Supplement Left Vertebral Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05US47Z	Supplement Left Vertebral Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05US4JZ	Supplement Left Vertebral Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05US4KZ	Supplement Left Vertebral Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UT07Z	Supplement Right Face Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UT0JZ	Supplement Right Face Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UT0KZ	Supplement Right Face Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UT37Z	Supplement Right Face Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UT3JZ	Supplement Right Face Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UT3KZ	Supplement Right Face Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UT47Z	Supplement Right Face Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UT4JZ	Supplement Right Face Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UT4KZ	Supplement Right Face Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UV07Z	Supplement Left Face Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UV0JZ	Supplement Left Face Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UV0KZ	Supplement Left Face Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UV37Z	Supplement Left Face Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UV3JZ	Supplement Left Face Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UV3KZ	Supplement Left Face Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UV47Z	Supplement Left Face Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UV4JZ	Supplement Left Face Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UV4KZ	Supplement Left Face Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UY07Z	Supplement Upper Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05UY0JZ	Supplement Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
05UY0KZ	Supplement Upper Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
05UY37Z	Supplement Upper Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UY3JZ	Supplement Upper Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UY3KZ	Supplement Upper Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
05UY47Z	Supplement Upper Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UY4JZ	Supplement Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05UY4KZ	Supplement Upper Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V00CZ	Restriction of Azygos Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05V00DZ	Restriction of Azygos Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05V00ZZ	Restriction of Azygos Vein, Open Approach	PX	ICD-10-PCS
05V03CZ	Restriction of Azygos Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V03DZ	Restriction of Azygos Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V03ZZ	Restriction of Azygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05V04CZ	Restriction of Azygos Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V04DZ	Restriction of Azygos Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V04ZZ	Restriction of Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V10CZ	Restriction of Hemiazygos Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05V10DZ	Restriction of Hemiazygos Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05V10ZZ	Restriction of Hemiazygos Vein, Open Approach	PX	ICD-10-PCS
05V13CZ	Restriction of Hemiazygos Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V13DZ	Restriction of Hemiazygos Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V13ZZ	Restriction of Hemiazygos Vein, Percutaneous Approach	PX	ICD-10-PCS
05V14CZ	Restriction of Hemiazygos Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V14DZ	Restriction of Hemiazygos Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V14ZZ	Restriction of Hemiazygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V30CZ	Restriction of Right Innominate Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05V30DZ	Restriction of Right Innominate Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05V30ZZ	Restriction of Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05V33CZ	Restriction of Right Innominate Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V33DZ	Restriction of Right Innominate Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V33ZZ	Restriction of Right Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05V34CZ	Restriction of Right Innominate Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V34DZ	Restriction of Right Innominate Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V34ZZ	Restriction of Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V40CZ	Restriction of Left Innominate Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05V40DZ	Restriction of Left Innominate Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05V40ZZ	Restriction of Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05V43CZ	Restriction of Left Innominate Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V43DZ	Restriction of Left Innominate Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V43ZZ	Restriction of Left Innominate Vein, Percutaneous Approach	PX	ICD-10-PCS
05V44CZ	Restriction of Left Innominate Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V44DZ	Restriction of Left Innominate Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V44ZZ	Restriction of Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V50CZ	Restriction of Right Subclavian Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05V50DZ	Restriction of Right Subclavian Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05V50ZZ	Restriction of Right Subclavian Vein, Open Approach	PX	ICD-10-PCS
05V53CZ	Restriction of Right Subclavian Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V53DZ	Restriction of Right Subclavian Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V53ZZ	Restriction of Right Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05V54CZ	Restriction of Right Subclavian Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V54DZ	Restriction of Right Subclavian Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V54ZZ	Restriction of Right Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V60CZ	Restriction of Left Subclavian Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05V60DZ	Restriction of Left Subclavian Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05V60ZZ	Restriction of Left Subclavian Vein, Open Approach	PX	ICD-10-PCS
05V63CZ	Restriction of Left Subclavian Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V63DZ	Restriction of Left Subclavian Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V63ZZ	Restriction of Left Subclavian Vein, Percutaneous Approach	PX	ICD-10-PCS
05V64CZ	Restriction of Left Subclavian Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V64DZ	Restriction of Left Subclavian Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V64ZZ	Restriction of Left Subclavian Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V70CZ	Restriction of Right Axillary Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05V70DZ	Restriction of Right Axillary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05V70ZZ	Restriction of Right Axillary Vein, Open Approach	PX	ICD-10-PCS
05V73CZ	Restriction of Right Axillary Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V73DZ	Restriction of Right Axillary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V73ZZ	Restriction of Right Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05V74CZ	Restriction of Right Axillary Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V74DZ	Restriction of Right Axillary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V74ZZ	Restriction of Right Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V80CZ	Restriction of Left Axillary Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05V80DZ	Restriction of Left Axillary Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05V80ZZ	Restriction of Left Axillary Vein, Open Approach	PX	ICD-10-PCS
05V83CZ	Restriction of Left Axillary Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V83DZ	Restriction of Left Axillary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V83ZZ	Restriction of Left Axillary Vein, Percutaneous Approach	PX	ICD-10-PCS
05V84CZ	Restriction of Left Axillary Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V84DZ	Restriction of Left Axillary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V84ZZ	Restriction of Left Axillary Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V90CZ	Restriction of Right Brachial Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05V90DZ	Restriction of Right Brachial Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05V90ZZ	Restriction of Right Brachial Vein, Open Approach	PX	ICD-10-PCS
05V93CZ	Restriction of Right Brachial Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V93DZ	Restriction of Right Brachial Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05V93ZZ	Restriction of Right Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05V94CZ	Restriction of Right Brachial Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V94DZ	Restriction of Right Brachial Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05V94ZZ	Restriction of Right Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VA0CZ	Restriction of Left Brachial Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VA0DZ	Restriction of Left Brachial Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VA0ZZ	Restriction of Left Brachial Vein, Open Approach	PX	ICD-10-PCS
05VA3CZ	Restriction of Left Brachial Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VA3DZ	Restriction of Left Brachial Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05VA3ZZ	Restriction of Left Brachial Vein, Percutaneous Approach	PX	ICD-10-PCS
05VA4CZ	Restriction of Left Brachial Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VA4DZ	Restriction of Left Brachial Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VA4ZZ	Restriction of Left Brachial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VB0CZ	Restriction of Right Basilic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VB0DZ	Restriction of Right Basilic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VB0ZZ	Restriction of Right Basilic Vein, Open Approach	PX	ICD-10-PCS
05VB3CZ	Restriction of Right Basilic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VB3DZ	Restriction of Right Basilic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VB3ZZ	Restriction of Right Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05VB4CZ	Restriction of Right Basilic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VB4DZ	Restriction of Right Basilic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VB4ZZ	Restriction of Right Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VC0CZ	Restriction of Left Basilic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VC0DZ	Restriction of Left Basilic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VC0ZZ	Restriction of Left Basilic Vein, Open Approach	PX	ICD-10-PCS
05VC3CZ	Restriction of Left Basilic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VC3DZ	Restriction of Left Basilic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VC3ZZ	Restriction of Left Basilic Vein, Percutaneous Approach	PX	ICD-10-PCS
05VC4CZ	Restriction of Left Basilic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VC4DZ	Restriction of Left Basilic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VC4ZZ	Restriction of Left Basilic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VD0CZ	Restriction of Right Cephalic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VD0DZ	Restriction of Right Cephalic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VD0ZZ	Restriction of Right Cephalic Vein, Open Approach	PX	ICD-10-PCS
05VD3CZ	Restriction of Right Cephalic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VD3DZ	Restriction of Right Cephalic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VD3ZZ	Restriction of Right Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05VD4CZ	Restriction of Right Cephalic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VD4DZ	Restriction of Right Cephalic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VD4ZZ	Restriction of Right Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VF0CZ	Restriction of Left Cephalic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VF0DZ	Restriction of Left Cephalic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05VF0ZZ	Restriction of Left Cephalic Vein, Open Approach	PX	ICD-10-PCS
05VF3CZ	Restriction of Left Cephalic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VF3DZ	Restriction of Left Cephalic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VF3ZZ	Restriction of Left Cephalic Vein, Percutaneous Approach	PX	ICD-10-PCS
05VF4CZ	Restriction of Left Cephalic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VF4DZ	Restriction of Left Cephalic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VF4ZZ	Restriction of Left Cephalic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VG0CZ	Restriction of Right Hand Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VG0DZ	Restriction of Right Hand Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VG0ZZ	Restriction of Right Hand Vein, Open Approach	PX	ICD-10-PCS
05VG3CZ	Restriction of Right Hand Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VG3DZ	Restriction of Right Hand Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VG3ZZ	Restriction of Right Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05VG4CZ	Restriction of Right Hand Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VG4DZ	Restriction of Right Hand Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VG4ZZ	Restriction of Right Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VH0CZ	Restriction of Left Hand Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VH0DZ	Restriction of Left Hand Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VH0ZZ	Restriction of Left Hand Vein, Open Approach	PX	ICD-10-PCS
05VH3CZ	Restriction of Left Hand Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VH3DZ	Restriction of Left Hand Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VH3ZZ	Restriction of Left Hand Vein, Percutaneous Approach	PX	ICD-10-PCS
05VH4CZ	Restriction of Left Hand Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VH4DZ	Restriction of Left Hand Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VH4ZZ	Restriction of Left Hand Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VL0CZ	Restriction of Intracranial Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VL0DZ	Restriction of Intracranial Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VL0ZZ	Restriction of Intracranial Vein, Open Approach	PX	ICD-10-PCS
05VL3CZ	Restriction of Intracranial Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VL3DZ	Restriction of Intracranial Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VL3ZZ	Restriction of Intracranial Vein, Percutaneous Approach	PX	ICD-10-PCS
05VL4CZ	Restriction of Intracranial Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
05VL4DZ	Restriction of Intracranial Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VL4ZZ	Restriction of Intracranial Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VM0CZ	Restriction of Right Internal Jugular Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VM0DZ	Restriction of Right Internal Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VM0ZZ	Restriction of Right Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05VM3CZ	Restriction of Right Internal Jugular Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VM3DZ	Restriction of Right Internal Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VM3ZZ	Restriction of Right Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05VM4CZ	Restriction of Right Internal Jugular Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VM4DZ	Restriction of Right Internal Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VM4ZZ	Restriction of Right Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VN0CZ	Restriction of Left Internal Jugular Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VN0DZ	Restriction of Left Internal Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VN0ZZ	Restriction of Left Internal Jugular Vein, Open Approach	PX	ICD-10-PCS
05VN3CZ	Restriction of Left Internal Jugular Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VN3DZ	Restriction of Left Internal Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VN3ZZ	Restriction of Left Internal Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05VN4CZ	Restriction of Left Internal Jugular Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VN4DZ	Restriction of Left Internal Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VN4ZZ	Restriction of Left Internal Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VP0CZ	Restriction of Right External Jugular Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VP0DZ	Restriction of Right External Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VP0ZZ	Restriction of Right External Jugular Vein, Open Approach	PX	ICD-10-PCS
05VP3CZ	Restriction of Right External Jugular Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VP3DZ	Restriction of Right External Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VP3ZZ	Restriction of Right External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05VP4CZ	Restriction of Right External Jugular Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05VP4DZ	Restriction of Right External Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VP4ZZ	Restriction of Right External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VQ0CZ	Restriction of Left External Jugular Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VQ0DZ	Restriction of Left External Jugular Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VQ0ZZ	Restriction of Left External Jugular Vein, Open Approach	PX	ICD-10-PCS
05VQ3CZ	Restriction of Left External Jugular Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VQ3DZ	Restriction of Left External Jugular Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VQ3ZZ	Restriction of Left External Jugular Vein, Percutaneous Approach	PX	ICD-10-PCS
05VQ4CZ	Restriction of Left External Jugular Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VQ4DZ	Restriction of Left External Jugular Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VQ4ZZ	Restriction of Left External Jugular Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VR0CZ	Restriction of Right Vertebral Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VR0DZ	Restriction of Right Vertebral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VR0ZZ	Restriction of Right Vertebral Vein, Open Approach	PX	ICD-10-PCS
05VR3CZ	Restriction of Right Vertebral Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VR3DZ	Restriction of Right Vertebral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VR3ZZ	Restriction of Right Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05VR4CZ	Restriction of Right Vertebral Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VR4DZ	Restriction of Right Vertebral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VR4ZZ	Restriction of Right Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VS0CZ	Restriction of Left Vertebral Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VS0DZ	Restriction of Left Vertebral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VS0ZZ	Restriction of Left Vertebral Vein, Open Approach	PX	ICD-10-PCS
05VS3CZ	Restriction of Left Vertebral Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VS3DZ	Restriction of Left Vertebral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VS3ZZ	Restriction of Left Vertebral Vein, Percutaneous Approach	PX	ICD-10-PCS
05VS4CZ	Restriction of Left Vertebral Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VS4DZ	Restriction of Left Vertebral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VS4ZZ	Restriction of Left Vertebral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VT0CZ	Restriction of Right Face Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05VT0DZ	Restriction of Right Face Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VT0ZZ	Restriction of Right Face Vein, Open Approach	PX	ICD-10-PCS
05VT3CZ	Restriction of Right Face Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VT3DZ	Restriction of Right Face Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VT3ZZ	Restriction of Right Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05VT4CZ	Restriction of Right Face Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VT4DZ	Restriction of Right Face Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VT4ZZ	Restriction of Right Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VV0CZ	Restriction of Left Face Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VV0DZ	Restriction of Left Face Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VV0ZZ	Restriction of Left Face Vein, Open Approach	PX	ICD-10-PCS
05VV3CZ	Restriction of Left Face Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VV3DZ	Restriction of Left Face Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VV3ZZ	Restriction of Left Face Vein, Percutaneous Approach	PX	ICD-10-PCS
05VV4CZ	Restriction of Left Face Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VV4DZ	Restriction of Left Face Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VV4ZZ	Restriction of Left Face Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VY0CZ	Restriction of Upper Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
05VY0DZ	Restriction of Upper Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
05VY0ZZ	Restriction of Upper Vein, Open Approach	PX	ICD-10-PCS
05VY3CZ	Restriction of Upper Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VY3DZ	Restriction of Upper Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
05VY3ZZ	Restriction of Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05VY4CZ	Restriction of Upper Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VY4DZ	Restriction of Upper Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05VY4ZZ	Restriction of Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05W002Z	Revision of Monitoring Device in Azygos Vein, Open Approach	PX	ICD-10-PCS
05W00MZ	Revision of Neurostimulator Lead in Azygos Vein, Open Approach	PX	ICD-10-PCS
05W042Z	Revision of Monitoring Device in Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05W04MZ	Revision of Neurostimulator Lead in Azygos Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05W30MZ	Revision of Neurostimulator Lead in Right Innominate Vein, Open Approach	PX	ICD-10-PCS
05W34MZ	Revision of Neurostimulator Lead in Right Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05W40MZ	Revision of Neurostimulator Lead in Left Innominate Vein, Open Approach	PX	ICD-10-PCS
05W44MZ	Revision of Neurostimulator Lead in Left Innominate Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05WY00Z	Revision of Drainage Device in Upper Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
05WY02Z	Revision of Monitoring Device in Upper Vein, Open Approach	PX	ICD-10-PCS
05WY03Z	Revision of Infusion Device in Upper Vein, Open Approach	PX	ICD-10-PCS
05WY07Z	Revision of Autologous Tissue Substitute in Upper Vein, Open Approach	PX	ICD-10-PCS
05WY0CZ	Revision of Extraluminal Device in Upper Vein, Open Approach	PX	ICD-10-PCS
05WY0DZ	Revision of Intraluminal Device in Upper Vein, Open Approach	PX	ICD-10-PCS
05WY0JZ	Revision of Synthetic Substitute in Upper Vein, Open Approach	PX	ICD-10-PCS
05WY0KZ	Revision of Nonautologous Tissue Substitute in Upper Vein, Open Approach	PX	ICD-10-PCS
05WY0YZ	Revision of Other Device in Upper Vein, Open Approach	PX	ICD-10-PCS
05WY37Z	Revision of Autologous Tissue Substitute in Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05WY3CZ	Revision of Extraluminal Device in Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05WY3DZ	Revision of Intraluminal Device in Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05WY3JZ	Revision of Synthetic Substitute in Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05WY3KZ	Revision of Nonautologous Tissue Substitute in Upper Vein, Percutaneous Approach	PX	ICD-10-PCS
05WY40Z	Revision of Drainage Device in Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05WY42Z	Revision of Monitoring Device in Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05WY43Z	Revision of Infusion Device in Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05WY47Z	Revision of Autologous Tissue Substitute in Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05WY4CZ	Revision of Extraluminal Device in Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05WY4DZ	Revision of Intraluminal Device in Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05WY4JZ	Revision of Synthetic Substitute in Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05WY4KZ	Revision of Nonautologous Tissue Substitute in Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
05WY4YZ	Revision of Other Device in Upper Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0610075	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0610076	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061007P	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061007Q	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061007R	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061007Y	Bypass Inferior Vena Cava to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0610095	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
0610096	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
061009P	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061009Q	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061009R	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061009Y	Bypass Inferior Vena Cava to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
06100A5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06100A6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06100AP	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06100AQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06100AR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06100AY	Bypass Inferior Vena Cava to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06100J5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06100J6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06100JP	Bypass Inferior Vena Cava to Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06100JQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06100JR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06100JY	Bypass Inferior Vena Cava to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06100K5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06100K6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06100KP	Bypass Inferior Vena Cava to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06100KQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06100KR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06100KY	Bypass Inferior Vena Cava to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06100Z5	Bypass Inferior Vena Cava to Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06100Z6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06100ZP	Bypass Inferior Vena Cava to Pulmonary Trunk, Open Approach	PX	ICD-10-PCS
06100ZQ	Bypass Inferior Vena Cava to Right Pulmonary Artery, Open Approach	PX	ICD-10-PCS
06100ZR	Bypass Inferior Vena Cava to Left Pulmonary Artery, Open Approach	PX	ICD-10-PCS
06100ZY	Bypass Inferior Vena Cava to Lower Vein, Open Approach	PX	ICD-10-PCS
0610475	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0610476	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061047P	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061047Q	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061047R	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061047Y	Bypass Inferior Vena Cava to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0610495	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0610496	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061049P	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061049Q	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061049R	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061049Y	Bypass Inferior Vena Cava to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104A5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104A6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104AP	Bypass Inferior Vena Cava to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104AQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104AR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104AY	Bypass Inferior Vena Cava to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104J5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104J6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06104JP	Bypass Inferior Vena Cava to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104JQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104JR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104JY	Bypass Inferior Vena Cava to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104K5	Bypass Inferior Vena Cava to Superior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104K6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104KP	Bypass Inferior Vena Cava to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104KQ	Bypass Inferior Vena Cava to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104KR	Bypass Inferior Vena Cava to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104KY	Bypass Inferior Vena Cava to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104Z5	Bypass Inferior Vena Cava to Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104Z6	Bypass Inferior Vena Cava to Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104ZP	Bypass Inferior Vena Cava to Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104ZQ	Bypass Inferior Vena Cava to Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104ZR	Bypass Inferior Vena Cava to Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06104ZY	Bypass Inferior Vena Cava to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0611079	Bypass Splenic Vein to Right Renal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061107B	Bypass Splenic Vein to Left Renal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061107Y	Bypass Splenic Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0611099	Bypass Splenic Vein to Right Renal Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061109B	Bypass Splenic Vein to Left Renal Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061109Y	Bypass Splenic Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
06110A9	Bypass Splenic Vein to Right Renal Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
06110AB	Bypass Splenic Vein to Left Renal Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06110AY	Bypass Splenic Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06110J9	Bypass Splenic Vein to Right Renal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06110JB	Bypass Splenic Vein to Left Renal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06110JY	Bypass Splenic Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06110K9	Bypass Splenic Vein to Right Renal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06110KB	Bypass Splenic Vein to Left Renal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06110KY	Bypass Splenic Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06110Z9	Bypass Splenic Vein to Right Renal Vein, Open Approach	PX	ICD-10-PCS
06110ZB	Bypass Splenic Vein to Left Renal Vein, Open Approach	PX	ICD-10-PCS
06110ZY	Bypass Splenic Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
0611479	Bypass Splenic Vein to Right Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061147B	Bypass Splenic Vein to Left Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061147Y	Bypass Splenic Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0611499	Bypass Splenic Vein to Right Renal Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061149B	Bypass Splenic Vein to Left Renal Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061149Y	Bypass Splenic Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114A9	Bypass Splenic Vein to Right Renal Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114AB	Bypass Splenic Vein to Left Renal Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114AY	Bypass Splenic Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114J9	Bypass Splenic Vein to Right Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114JB	Bypass Splenic Vein to Left Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114JY	Bypass Splenic Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114K9	Bypass Splenic Vein to Right Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06114KB	Bypass Splenic Vein to Left Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114KY	Bypass Splenic Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114Z9	Bypass Splenic Vein to Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114ZB	Bypass Splenic Vein to Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06114ZY	Bypass Splenic Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061207Y	Bypass Gastric Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061209Y	Bypass Gastric Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
06120AY	Bypass Gastric Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06120JY	Bypass Gastric Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06120KY	Bypass Gastric Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06120ZY	Bypass Gastric Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061247Y	Bypass Gastric Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061249Y	Bypass Gastric Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06124AY	Bypass Gastric Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06124JY	Bypass Gastric Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06124KY	Bypass Gastric Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06124ZY	Bypass Gastric Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061307Y	Bypass Esophageal Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061309Y	Bypass Esophageal Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
06130AY	Bypass Esophageal Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06130JY	Bypass Esophageal Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06130KY	Bypass Esophageal Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06130ZY	Bypass Esophageal Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061347Y	Bypass Esophageal Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061349Y	Bypass Esophageal Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06134AY	Bypass Esophageal Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06134JY	Bypass Esophageal Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06134KY	Bypass Esophageal Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06134ZY	Bypass Esophageal Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061407Y	Bypass Hepatic Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061409Y	Bypass Hepatic Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
06140AY	Bypass Hepatic Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06140JY	Bypass Hepatic Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06140KY	Bypass Hepatic Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06140ZY	Bypass Hepatic Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061447Y	Bypass Hepatic Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061449Y	Bypass Hepatic Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06144AY	Bypass Hepatic Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06144JY	Bypass Hepatic Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06144KY	Bypass Hepatic Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06144ZY	Bypass Hepatic Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061507Y	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061509Y	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
06150AY	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06150JY	Bypass Superior Mesenteric Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06150KY	Bypass Superior Mesenteric Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06150ZY	Bypass Superior Mesenteric Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061547Y	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061549Y	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06154AY	Bypass Superior Mesenteric Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06154JY	Bypass Superior Mesenteric Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06154KY	Bypass Superior Mesenteric Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06154ZY	Bypass Superior Mesenteric Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061607Y	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061609Y	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
06160AY	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06160JY	Bypass Inferior Mesenteric Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06160KY	Bypass Inferior Mesenteric Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06160ZY	Bypass Inferior Mesenteric Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061647Y	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061649Y	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06164AY	Bypass Inferior Mesenteric Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06164JY	Bypass Inferior Mesenteric Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06164KY	Bypass Inferior Mesenteric Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06164ZY	Bypass Inferior Mesenteric Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061707Y	Bypass Colic Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061709Y	Bypass Colic Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
06170AY	Bypass Colic Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06170JY	Bypass Colic Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06170KY	Bypass Colic Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06170ZY	Bypass Colic Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061747Y	Bypass Colic Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061749Y	Bypass Colic Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06174AY	Bypass Colic Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06174JY	Bypass Colic Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06174KY	Bypass Colic Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06174ZY	Bypass Colic Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0618079	Bypass Portal Vein to Right Renal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061807B	Bypass Portal Vein to Left Renal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061807Y	Bypass Portal Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0618099	Bypass Portal Vein to Right Renal Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061809B	Bypass Portal Vein to Left Renal Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061809Y	Bypass Portal Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
06180A9	Bypass Portal Vein to Right Renal Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06180AB	Bypass Portal Vein to Left Renal Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06180AY	Bypass Portal Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06180J9	Bypass Portal Vein to Right Renal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06180JB	Bypass Portal Vein to Left Renal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06180JY	Bypass Portal Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06180K9	Bypass Portal Vein to Right Renal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06180KB	Bypass Portal Vein to Left Renal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06180KY	Bypass Portal Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06180Z9	Bypass Portal Vein to Right Renal Vein, Open Approach	PX	ICD-10-PCS
06180ZB	Bypass Portal Vein to Left Renal Vein, Open Approach	PX	ICD-10-PCS
06180ZY	Bypass Portal Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
06183DY	Bypass Portal Vein to Lower Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06183J4	Bypass Portal Vein to Hepatic Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06183JY	Bypass Portal Vein to Lower Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0618479	Bypass Portal Vein to Right Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061847B	Bypass Portal Vein to Left Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
061847Y	Bypass Portal Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0618499	Bypass Portal Vein to Right Renal Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061849B	Bypass Portal Vein to Left Renal Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061849Y	Bypass Portal Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184A9	Bypass Portal Vein to Right Renal Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184AB	Bypass Portal Vein to Left Renal Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184AY	Bypass Portal Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184DY	Bypass Portal Vein to Lower Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184J4	Bypass Portal Vein to Hepatic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184J9	Bypass Portal Vein to Right Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184JB	Bypass Portal Vein to Left Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184JY	Bypass Portal Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184K9	Bypass Portal Vein to Right Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184KB	Bypass Portal Vein to Left Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184KY	Bypass Portal Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184Z9	Bypass Portal Vein to Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184ZB	Bypass Portal Vein to Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06184ZY	Bypass Portal Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061907Y	Bypass Right Renal Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061909Y	Bypass Right Renal Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
06190AY	Bypass Right Renal Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
06190JY	Bypass Right Renal Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06190KY	Bypass Right Renal Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06190ZY	Bypass Right Renal Vein to Lower Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
061947Y	Bypass Right Renal Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061949Y	Bypass Right Renal Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06194AY	Bypass Right Renal Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06194JY	Bypass Right Renal Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06194KY	Bypass Right Renal Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06194ZY	Bypass Right Renal Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061B07Y	Bypass Left Renal Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061B09Y	Bypass Left Renal Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061B0AY	Bypass Left Renal Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061B0JY	Bypass Left Renal Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061B0KY	Bypass Left Renal Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061B0ZY	Bypass Left Renal Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061B47Y	Bypass Left Renal Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061B49Y	Bypass Left Renal Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061B4AY	Bypass Left Renal Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061B4JY	Bypass Left Renal Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061B4KY	Bypass Left Renal Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061B4ZY	Bypass Left Renal Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061C07Y	Bypass Right Common Iliac Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061C09Y	Bypass Right Common Iliac Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061C0AY	Bypass Right Common Iliac Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061C0JY	Bypass Right Common Iliac Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061C0KY	Bypass Right Common Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061C0ZY	Bypass Right Common Iliac Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061C47Y	Bypass Right Common Iliac Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
061C49Y	Bypass Right Common Iliac Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061C4AY	Bypass Right Common Iliac Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061C4JY	Bypass Right Common Iliac Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061C4KY	Bypass Right Common Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061C4ZY	Bypass Right Common Iliac Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061D07Y	Bypass Left Common Iliac Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061D09Y	Bypass Left Common Iliac Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061D0AY	Bypass Left Common Iliac Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061D0JY	Bypass Left Common Iliac Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061D0KY	Bypass Left Common Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061D0ZY	Bypass Left Common Iliac Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061D47Y	Bypass Left Common Iliac Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061D49Y	Bypass Left Common Iliac Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061D4AY	Bypass Left Common Iliac Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061D4JY	Bypass Left Common Iliac Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061D4KY	Bypass Left Common Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061D4ZY	Bypass Left Common Iliac Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061F07Y	Bypass Right External Iliac Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061F09Y	Bypass Right External Iliac Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061F0AY	Bypass Right External Iliac Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061F0JY	Bypass Right External Iliac Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061F0KY	Bypass Right External Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061F0ZY	Bypass Right External Iliac Vein to Lower Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
061F47Y	Bypass Right External Iliac Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061F49Y	Bypass Right External Iliac Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061F4AY	Bypass Right External Iliac Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061F4JY	Bypass Right External Iliac Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061F4KY	Bypass Right External Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061F4ZY	Bypass Right External Iliac Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061G07Y	Bypass Left External Iliac Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061G09Y	Bypass Left External Iliac Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061G0AY	Bypass Left External Iliac Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061G0JY	Bypass Left External Iliac Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061G0KY	Bypass Left External Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061G0ZY	Bypass Left External Iliac Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061G47Y	Bypass Left External Iliac Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061G49Y	Bypass Left External Iliac Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061G4AY	Bypass Left External Iliac Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061G4JY	Bypass Left External Iliac Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061G4KY	Bypass Left External Iliac Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061G4ZY	Bypass Left External Iliac Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061H07Y	Bypass Right Hypogastric Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061H09Y	Bypass Right Hypogastric Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061H0AY	Bypass Right Hypogastric Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061H0JY	Bypass Right Hypogastric Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061H0KY	Bypass Right Hypogastric Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
061H0ZY	Bypass Right Hypogastric Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061H47Y	Bypass Right Hypogastric Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061H49Y	Bypass Right Hypogastric Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061H4AY	Bypass Right Hypogastric Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061H4JY	Bypass Right Hypogastric Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061H4KY	Bypass Right Hypogastric Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061H4ZY	Bypass Right Hypogastric Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061J07Y	Bypass Left Hypogastric Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061J09Y	Bypass Left Hypogastric Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061J0AY	Bypass Left Hypogastric Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061J0JY	Bypass Left Hypogastric Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061J0KY	Bypass Left Hypogastric Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061J0ZY	Bypass Left Hypogastric Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061J47Y	Bypass Left Hypogastric Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061J49Y	Bypass Left Hypogastric Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061J4AY	Bypass Left Hypogastric Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061J4JY	Bypass Left Hypogastric Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061J4KY	Bypass Left Hypogastric Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061J4ZY	Bypass Left Hypogastric Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061M07Y	Bypass Right Femoral Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061M09Y	Bypass Right Femoral Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061M0AY	Bypass Right Femoral Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061M0JY	Bypass Right Femoral Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061M0KY	Bypass Right Femoral Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
061M0ZY	Bypass Right Femoral Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061M47Y	Bypass Right Femoral Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061M49Y	Bypass Right Femoral Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061M4AY	Bypass Right Femoral Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061M4JY	Bypass Right Femoral Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061M4KY	Bypass Right Femoral Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061M4ZY	Bypass Right Femoral Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061N07Y	Bypass Left Femoral Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061N09Y	Bypass Left Femoral Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061N0AY	Bypass Left Femoral Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061N0JY	Bypass Left Femoral Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061N0KY	Bypass Left Femoral Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061N0ZY	Bypass Left Femoral Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061N47Y	Bypass Left Femoral Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061N49Y	Bypass Left Femoral Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061N4AY	Bypass Left Femoral Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061N4JY	Bypass Left Femoral Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061N4KY	Bypass Left Femoral Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061N4ZY	Bypass Left Femoral Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061P07Y	Bypass Right Saphenous Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061P09Y	Bypass Right Saphenous Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061P0AY	Bypass Right Saphenous Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061P0JY	Bypass Right Saphenous Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061P0KY	Bypass Right Saphenous Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061P0ZY	Bypass Right Saphenous Vein to Lower Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
061P47Y	Bypass Right Saphenous Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061P49Y	Bypass Right Saphenous Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061P4AY	Bypass Right Saphenous Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061P4JY	Bypass Right Saphenous Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061P4KY	Bypass Right Saphenous Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061P4ZY	Bypass Right Saphenous Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061Q07Y	Bypass Left Saphenous Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061Q09Y	Bypass Left Saphenous Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061Q0AY	Bypass Left Saphenous Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061Q0JY	Bypass Left Saphenous Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061Q0KY	Bypass Left Saphenous Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061Q0ZY	Bypass Left Saphenous Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061Q47Y	Bypass Left Saphenous Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061Q49Y	Bypass Left Saphenous Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061Q4AY	Bypass Left Saphenous Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061Q4JY	Bypass Left Saphenous Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061Q4KY	Bypass Left Saphenous Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061Q4ZY	Bypass Left Saphenous Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061R07Y	Bypass Right Lesser Saphenous Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061R09Y	Bypass Right Lesser Saphenous Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061R0AY	Bypass Right Lesser Saphenous Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061R0JY	Bypass Right Lesser Saphenous Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061R0KY	Bypass Right Lesser Saphenous Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061R0ZY	Bypass Right Lesser Saphenous Vein to Lower Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
061R47Y	Bypass Right Lesser Saphenous Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061R49Y	Bypass Right Lesser Saphenous Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061R4AY	Bypass Right Lesser Saphenous Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061R4JY	Bypass Right Lesser Saphenous Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061R4KY	Bypass Right Lesser Saphenous Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061R4ZY	Bypass Right Lesser Saphenous Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061S07Y	Bypass Left Lesser Saphenous Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061S09Y	Bypass Left Lesser Saphenous Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061S0AY	Bypass Left Lesser Saphenous Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061S0JY	Bypass Left Lesser Saphenous Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061S0KY	Bypass Left Lesser Saphenous Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061S0ZY	Bypass Left Lesser Saphenous Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061S47Y	Bypass Left Lesser Saphenous Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061S49Y	Bypass Left Lesser Saphenous Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061S4AY	Bypass Left Lesser Saphenous Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061S4JY	Bypass Left Lesser Saphenous Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061S4KY	Bypass Left Lesser Saphenous Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061S4ZY	Bypass Left Lesser Saphenous Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061T07Y	Bypass Right Foot Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061T09Y	Bypass Right Foot Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061T0AY	Bypass Right Foot Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061T0JY	Bypass Right Foot Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061T0KY	Bypass Right Foot Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061T0ZY	Bypass Right Foot Vein to Lower Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
061T47Y	Bypass Right Foot Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061T49Y	Bypass Right Foot Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061T4AY	Bypass Right Foot Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061T4JY	Bypass Right Foot Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061T4KY	Bypass Right Foot Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061T4ZY	Bypass Right Foot Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061V07Y	Bypass Left Foot Vein to Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061V09Y	Bypass Left Foot Vein to Lower Vein with Autologous Venous Tissue, Open Approach	PX	ICD-10-PCS
061V0AY	Bypass Left Foot Vein to Lower Vein with Autologous Arterial Tissue, Open Approach	PX	ICD-10-PCS
061V0JY	Bypass Left Foot Vein to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
061V0KY	Bypass Left Foot Vein to Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
061V0ZY	Bypass Left Foot Vein to Lower Vein, Open Approach	PX	ICD-10-PCS
061V47Y	Bypass Left Foot Vein to Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061V49Y	Bypass Left Foot Vein to Lower Vein with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061V4AY	Bypass Left Foot Vein to Lower Vein with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061V4JY	Bypass Left Foot Vein to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061V4KY	Bypass Left Foot Vein to Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
061V4ZY	Bypass Left Foot Vein to Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06500ZZ	Destruction of Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06503ZZ	Destruction of Inferior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
06504ZZ	Destruction of Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06510ZZ	Destruction of Splenic Vein, Open Approach	PX	ICD-10-PCS
06513ZZ	Destruction of Splenic Vein, Percutaneous Approach	PX	ICD-10-PCS
06514ZZ	Destruction of Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06520ZZ	Destruction of Gastric Vein, Open Approach	PX	ICD-10-PCS
06523ZZ	Destruction of Gastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06524ZZ	Destruction of Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06530ZZ	Destruction of Esophageal Vein, Open Approach	PX	ICD-10-PCS
06533ZZ	Destruction of Esophageal Vein, Percutaneous Approach	PX	ICD-10-PCS
06534ZZ	Destruction of Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06540ZZ	Destruction of Hepatic Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06543ZZ	Destruction of Hepatic Vein, Percutaneous Approach	PX	ICD-10-PCS
06544ZZ	Destruction of Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06550ZZ	Destruction of Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06553ZZ	Destruction of Superior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06554ZZ	Destruction of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06560ZZ	Destruction of Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06563ZZ	Destruction of Inferior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06564ZZ	Destruction of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06570ZZ	Destruction of Colic Vein, Open Approach	PX	ICD-10-PCS
06573ZZ	Destruction of Colic Vein, Percutaneous Approach	PX	ICD-10-PCS
06574ZZ	Destruction of Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06580ZZ	Destruction of Portal Vein, Open Approach	PX	ICD-10-PCS
06583ZZ	Destruction of Portal Vein, Percutaneous Approach	PX	ICD-10-PCS
06584ZZ	Destruction of Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06590ZZ	Destruction of Right Renal Vein, Open Approach	PX	ICD-10-PCS
06593ZZ	Destruction of Right Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06594ZZ	Destruction of Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065B0ZZ	Destruction of Left Renal Vein, Open Approach	PX	ICD-10-PCS
065B3ZZ	Destruction of Left Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
065B4ZZ	Destruction of Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065C0ZZ	Destruction of Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
065C3ZZ	Destruction of Right Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
065C4ZZ	Destruction of Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065D0ZZ	Destruction of Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
065D3ZZ	Destruction of Left Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
065D4ZZ	Destruction of Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065F0ZZ	Destruction of Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
065F3ZZ	Destruction of Right External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
065F4ZZ	Destruction of Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065G0ZZ	Destruction of Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
065G3ZZ	Destruction of Left External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
065G4ZZ	Destruction of Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065H0ZZ	Destruction of Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
065H3ZZ	Destruction of Right Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
065H4ZZ	Destruction of Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065J0ZZ	Destruction of Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
065J3ZZ	Destruction of Left Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
065J4ZZ	Destruction of Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065M0ZZ	Destruction of Right Femoral Vein, Open Approach	PX	ICD-10-PCS
065M3ZZ	Destruction of Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
065M4ZZ	Destruction of Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065N0ZZ	Destruction of Left Femoral Vein, Open Approach	PX	ICD-10-PCS
065N3ZZ	Destruction of Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
065N4ZZ	Destruction of Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065P0ZZ	Destruction of Right Saphenous Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
065P3ZZ	Destruction of Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
065P4ZZ	Destruction of Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065Q0ZZ	Destruction of Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
065Q3ZZ	Destruction of Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
065Q4ZZ	Destruction of Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065R0ZZ	Destruction of Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
065R3ZZ	Destruction of Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
065R4ZZ	Destruction of Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065S0ZZ	Destruction of Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
065S3ZZ	Destruction of Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
065S4ZZ	Destruction of Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065T0ZZ	Destruction of Right Foot Vein, Open Approach	PX	ICD-10-PCS
065T3ZZ	Destruction of Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
065T4ZZ	Destruction of Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065V0ZZ	Destruction of Left Foot Vein, Open Approach	PX	ICD-10-PCS
065V3ZZ	Destruction of Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
065V4ZZ	Destruction of Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065Y0ZC	Destruction of Hemorrhoidal Plexus, Open Approach	PX	ICD-10-PCS
065Y0ZZ	Destruction of Lower Vein, Open Approach	PX	ICD-10-PCS
065Y3ZC	Destruction of Hemorrhoidal Plexus, Percutaneous Approach	PX	ICD-10-PCS
065Y3ZZ	Destruction of Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
065Y4ZC	Destruction of Hemorrhoidal Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
065Y4ZZ	Destruction of Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06700DZ	Dilation of Inferior Vena Cava with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06700ZZ	Dilation of Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06703DZ	Dilation of Inferior Vena Cava with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06703ZZ	Dilation of Inferior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
06704DZ	Dilation of Inferior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06704ZZ	Dilation of Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06710DZ	Dilation of Splenic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06710ZZ	Dilation of Splenic Vein, Open Approach	PX	ICD-10-PCS
06713DZ	Dilation of Splenic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06713ZZ	Dilation of Splenic Vein, Percutaneous Approach	PX	ICD-10-PCS
06714DZ	Dilation of Splenic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06714ZZ	Dilation of Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06720DZ	Dilation of Gastric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06720ZZ	Dilation of Gastric Vein, Open Approach	PX	ICD-10-PCS
06723DZ	Dilation of Gastric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06723ZZ	Dilation of Gastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06724DZ	Dilation of Gastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06724ZZ	Dilation of Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06730DZ	Dilation of Esophageal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06730ZZ	Dilation of Esophageal Vein, Open Approach	PX	ICD-10-PCS
06733DZ	Dilation of Esophageal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06733ZZ	Dilation of Esophageal Vein, Percutaneous Approach	PX	ICD-10-PCS
06734DZ	Dilation of Esophageal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06734ZZ	Dilation of Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06740DZ	Dilation of Hepatic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06740ZZ	Dilation of Hepatic Vein, Open Approach	PX	ICD-10-PCS
06743DZ	Dilation of Hepatic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06743ZZ	Dilation of Hepatic Vein, Percutaneous Approach	PX	ICD-10-PCS
06744DZ	Dilation of Hepatic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06744ZZ	Dilation of Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06750DZ	Dilation of Superior Mesenteric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06750ZZ	Dilation of Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06753DZ	Dilation of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06753ZZ	Dilation of Superior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06754DZ	Dilation of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06754ZZ	Dilation of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06760DZ	Dilation of Inferior Mesenteric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06760ZZ	Dilation of Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06763DZ	Dilation of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06763ZZ	Dilation of Inferior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06764DZ	Dilation of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06764ZZ	Dilation of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06770DZ	Dilation of Colic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06770ZZ	Dilation of Colic Vein, Open Approach	PX	ICD-10-PCS
06773DZ	Dilation of Colic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06773ZZ	Dilation of Colic Vein, Percutaneous Approach	PX	ICD-10-PCS
06774DZ	Dilation of Colic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06774ZZ	Dilation of Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06780DZ	Dilation of Portal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06780ZZ	Dilation of Portal Vein, Open Approach	PX	ICD-10-PCS
06783DZ	Dilation of Portal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06783ZZ	Dilation of Portal Vein, Percutaneous Approach	PX	ICD-10-PCS
06784DZ	Dilation of Portal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06784ZZ	Dilation of Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06790DZ	Dilation of Right Renal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06790ZZ	Dilation of Right Renal Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06793DZ	Dilation of Right Renal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06793ZZ	Dilation of Right Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06794DZ	Dilation of Right Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06794ZZ	Dilation of Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067B0DZ	Dilation of Left Renal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067B0ZZ	Dilation of Left Renal Vein, Open Approach	PX	ICD-10-PCS
067B3DZ	Dilation of Left Renal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067B3ZZ	Dilation of Left Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
067B4DZ	Dilation of Left Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067B4ZZ	Dilation of Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067C0DZ	Dilation of Right Common Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067C0ZZ	Dilation of Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
067C3DZ	Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067C3ZZ	Dilation of Right Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
067C4DZ	Dilation of Right Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067C4ZZ	Dilation of Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067D0DZ	Dilation of Left Common Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067D0ZZ	Dilation of Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
067D3DZ	Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067D3ZZ	Dilation of Left Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
067D4DZ	Dilation of Left Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067D4ZZ	Dilation of Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067F0DZ	Dilation of Right External Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067F0ZZ	Dilation of Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
067F3DZ	Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067F3ZZ	Dilation of Right External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
067F4DZ	Dilation of Right External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067F4ZZ	Dilation of Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067G0DZ	Dilation of Left External Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067G0ZZ	Dilation of Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
067G3DZ	Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067G3ZZ	Dilation of Left External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
067G4DZ	Dilation of Left External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067G4ZZ	Dilation of Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067H0DZ	Dilation of Right Hypogastric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
067H0ZZ	Dilation of Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
067H3DZ	Dilation of Right Hypogastric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067H3ZZ	Dilation of Right Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
067H4DZ	Dilation of Right Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067H4ZZ	Dilation of Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067J0DZ	Dilation of Left Hypogastric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067J0ZZ	Dilation of Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
067J3DZ	Dilation of Left Hypogastric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067J3ZZ	Dilation of Left Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
067J4DZ	Dilation of Left Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067J4ZZ	Dilation of Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067M0DZ	Dilation of Right Femoral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067M0ZZ	Dilation of Right Femoral Vein, Open Approach	PX	ICD-10-PCS
067M3DZ	Dilation of Right Femoral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067M3ZZ	Dilation of Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
067M4DZ	Dilation of Right Femoral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067M4ZZ	Dilation of Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067N0DZ	Dilation of Left Femoral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067N0ZZ	Dilation of Left Femoral Vein, Open Approach	PX	ICD-10-PCS
067N3DZ	Dilation of Left Femoral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067N3ZZ	Dilation of Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
067N4DZ	Dilation of Left Femoral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067N4ZZ	Dilation of Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067P0DZ	Dilation of Right Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067P0ZZ	Dilation of Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
067P3DZ	Dilation of Right Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067P3ZZ	Dilation of Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
067P4DZ	Dilation of Right Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067P4ZZ	Dilation of Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067Q0DZ	Dilation of Left Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067Q0ZZ	Dilation of Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
067Q3DZ	Dilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067Q3ZZ	Dilation of Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
067Q4DZ	Dilation of Left Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067Q4ZZ	Dilation of Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
067R0DZ	Dilation of Right Lesser Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067R0ZZ	Dilation of Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
067R3DZ	Dilation of Right Lesser Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067R3ZZ	Dilation of Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
067R4DZ	Dilation of Right Lesser Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067R4ZZ	Dilation of Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067S0DZ	Dilation of Left Lesser Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067S0ZZ	Dilation of Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
067S3DZ	Dilation of Left Lesser Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067S3ZZ	Dilation of Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
067S4DZ	Dilation of Left Lesser Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067S4ZZ	Dilation of Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067T0DZ	Dilation of Right Foot Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067T0ZZ	Dilation of Right Foot Vein, Open Approach	PX	ICD-10-PCS
067T3DZ	Dilation of Right Foot Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067T3ZZ	Dilation of Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
067T4DZ	Dilation of Right Foot Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067T4ZZ	Dilation of Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067V0DZ	Dilation of Left Foot Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067V0ZZ	Dilation of Left Foot Vein, Open Approach	PX	ICD-10-PCS
067V3DZ	Dilation of Left Foot Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067V3ZZ	Dilation of Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
067V4DZ	Dilation of Left Foot Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067V4ZZ	Dilation of Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067Y0DZ	Dilation of Lower Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
067Y0ZZ	Dilation of Lower Vein, Open Approach	PX	ICD-10-PCS
067Y3DZ	Dilation of Lower Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
067Y3ZZ	Dilation of Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
067Y4DZ	Dilation of Lower Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
067Y4ZZ	Dilation of Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069000Z	Drainage of Inferior Vena Cava with Drainage Device, Open Approach	PX	ICD-10-PCS
06900ZZ	Drainage of Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
069040Z	Drainage of Inferior Vena Cava with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06904ZZ	Drainage of Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069100Z	Drainage of Splenic Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
06910ZZ	Drainage of Splenic Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
069140Z	Drainage of Splenic Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06914ZZ	Drainage of Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069200Z	Drainage of Gastric Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
06920ZZ	Drainage of Gastric Vein, Open Approach	PX	ICD-10-PCS
069240Z	Drainage of Gastric Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06924ZZ	Drainage of Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069300Z	Drainage of Esophageal Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
06930ZZ	Drainage of Esophageal Vein, Open Approach	PX	ICD-10-PCS
069340Z	Drainage of Esophageal Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06934ZZ	Drainage of Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069400Z	Drainage of Hepatic Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
06940ZZ	Drainage of Hepatic Vein, Open Approach	PX	ICD-10-PCS
069440Z	Drainage of Hepatic Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06944ZZ	Drainage of Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069500Z	Drainage of Superior Mesenteric Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
06950ZZ	Drainage of Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
069540Z	Drainage of Superior Mesenteric Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06954ZZ	Drainage of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069600Z	Drainage of Inferior Mesenteric Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
06960ZZ	Drainage of Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
069640Z	Drainage of Inferior Mesenteric Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06964ZZ	Drainage of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069700Z	Drainage of Colic Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
06970ZZ	Drainage of Colic Vein, Open Approach	PX	ICD-10-PCS
069740Z	Drainage of Colic Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06974ZZ	Drainage of Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069800Z	Drainage of Portal Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
06980ZZ	Drainage of Portal Vein, Open Approach	PX	ICD-10-PCS
069840Z	Drainage of Portal Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06984ZZ	Drainage of Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069900Z	Drainage of Right Renal Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
06990ZZ	Drainage of Right Renal Vein, Open Approach	PX	ICD-10-PCS
069940Z	Drainage of Right Renal Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06994ZZ	Drainage of Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069B00Z	Drainage of Left Renal Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069B0ZZ	Drainage of Left Renal Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
069B40Z	Drainage of Left Renal Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069B4ZZ	Drainage of Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069C00Z	Drainage of Right Common Iliac Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069C0ZZ	Drainage of Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
069C40Z	Drainage of Right Common Iliac Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069C4ZZ	Drainage of Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069D00Z	Drainage of Left Common Iliac Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069D0ZZ	Drainage of Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
069D40Z	Drainage of Left Common Iliac Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069D4ZZ	Drainage of Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069F00Z	Drainage of Right External Iliac Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069F0ZZ	Drainage of Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
069F40Z	Drainage of Right External Iliac Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069F4ZZ	Drainage of Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069G00Z	Drainage of Left External Iliac Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069G0ZZ	Drainage of Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
069G40Z	Drainage of Left External Iliac Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069G4ZZ	Drainage of Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069H00Z	Drainage of Right Hypogastric Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069H0ZZ	Drainage of Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
069H40Z	Drainage of Right Hypogastric Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069H4ZZ	Drainage of Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069J00Z	Drainage of Left Hypogastric Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069J0ZZ	Drainage of Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
069J40Z	Drainage of Left Hypogastric Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069J4ZZ	Drainage of Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069M00Z	Drainage of Right Femoral Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069M0ZZ	Drainage of Right Femoral Vein, Open Approach	PX	ICD-10-PCS
069M40Z	Drainage of Right Femoral Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069M4ZZ	Drainage of Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069N00Z	Drainage of Left Femoral Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069N0ZZ	Drainage of Left Femoral Vein, Open Approach	PX	ICD-10-PCS
069N40Z	Drainage of Left Femoral Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069N4ZZ	Drainage of Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069P00Z	Drainage of Right Saphenous Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069P0ZZ	Drainage of Right Saphenous Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
069P40Z	Drainage of Right Saphenous Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069P4ZZ	Drainage of Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069Q00Z	Drainage of Left Saphenous Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069Q0ZZ	Drainage of Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
069Q40Z	Drainage of Left Saphenous Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069Q4ZZ	Drainage of Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069T00Z	Drainage of Right Foot Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069T0ZZ	Drainage of Right Foot Vein, Open Approach	PX	ICD-10-PCS
069T40Z	Drainage of Right Foot Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069T4ZZ	Drainage of Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069V00Z	Drainage of Left Foot Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069V0ZZ	Drainage of Left Foot Vein, Open Approach	PX	ICD-10-PCS
069V40Z	Drainage of Left Foot Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069V4ZZ	Drainage of Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069Y00Z	Drainage of Lower Vein with Drainage Device, Open Approach	PX	ICD-10-PCS
069Y0ZZ	Drainage of Lower Vein, Open Approach	PX	ICD-10-PCS
069Y40Z	Drainage of Lower Vein with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
069Y4ZZ	Drainage of Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06B00ZZ	Excision of Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06B03ZZ	Excision of Inferior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
06B04ZZ	Excision of Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06B10ZZ	Excision of Splenic Vein, Open Approach	PX	ICD-10-PCS
06B13ZZ	Excision of Splenic Vein, Percutaneous Approach	PX	ICD-10-PCS
06B14ZZ	Excision of Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06B20ZZ	Excision of Gastric Vein, Open Approach	PX	ICD-10-PCS
06B23ZZ	Excision of Gastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06B24ZZ	Excision of Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06B30ZZ	Excision of Esophageal Vein, Open Approach	PX	ICD-10-PCS
06B33ZZ	Excision of Esophageal Vein, Percutaneous Approach	PX	ICD-10-PCS
06B34ZZ	Excision of Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06B40ZZ	Excision of Hepatic Vein, Open Approach	PX	ICD-10-PCS
06B43ZZ	Excision of Hepatic Vein, Percutaneous Approach	PX	ICD-10-PCS
06B44ZZ	Excision of Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06B50ZZ	Excision of Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06B53ZZ	Excision of Superior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06B54ZZ	Excision of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06B60ZZ	Excision of Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06B63ZZ	Excision of Inferior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06B64ZZ	Excision of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06B70ZZ	Excision of Colic Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06B73ZZ	Excision of Colic Vein, Percutaneous Approach	PX	ICD-10-PCS
06B74ZZ	Excision of Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06B80ZZ	Excision of Portal Vein, Open Approach	PX	ICD-10-PCS
06B83ZZ	Excision of Portal Vein, Percutaneous Approach	PX	ICD-10-PCS
06B84ZZ	Excision of Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06B90ZZ	Excision of Right Renal Vein, Open Approach	PX	ICD-10-PCS
06B93ZZ	Excision of Right Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06B94ZZ	Excision of Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BB0ZZ	Excision of Left Renal Vein, Open Approach	PX	ICD-10-PCS
06BB3ZZ	Excision of Left Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06BB4ZZ	Excision of Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BC0ZZ	Excision of Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06BC3ZZ	Excision of Right Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06BC4ZZ	Excision of Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BD0ZZ	Excision of Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06BD3ZZ	Excision of Left Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06BD4ZZ	Excision of Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BF0ZZ	Excision of Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
06BF3ZZ	Excision of Right External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06BF4ZZ	Excision of Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BG0ZZ	Excision of Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
06BG3ZZ	Excision of Left External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06BG4ZZ	Excision of Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BH0ZZ	Excision of Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06BH3ZZ	Excision of Right Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06BH4ZZ	Excision of Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BJ0ZZ	Excision of Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06BJ3ZZ	Excision of Left Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06BJ4ZZ	Excision of Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BM0ZZ	Excision of Right Femoral Vein, Open Approach	PX	ICD-10-PCS
06BM3ZZ	Excision of Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06BM4ZZ	Excision of Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BN0ZZ	Excision of Left Femoral Vein, Open Approach	PX	ICD-10-PCS
06BN3ZZ	Excision of Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06BN4ZZ	Excision of Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BP0ZZ	Excision of Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
06BP3ZZ	Excision of Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06BP4ZZ	Excision of Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BQ0ZZ	Excision of Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
06BQ3ZZ	Excision of Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06BQ4ZZ	Excision of Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BR0ZZ	Excision of Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06BR3ZZ	Excision of Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06BR4ZZ	Excision of Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BS0ZZ	Excision of Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06BS3ZZ	Excision of Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06BS4ZZ	Excision of Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BT0ZZ	Excision of Right Foot Vein, Open Approach	PX	ICD-10-PCS
06BT3ZZ	Excision of Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06BT4ZZ	Excision of Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BV0ZZ	Excision of Left Foot Vein, Open Approach	PX	ICD-10-PCS
06BV3ZZ	Excision of Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06BV4ZZ	Excision of Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BY0ZC	Excision of Hemorrhoidal Plexus, Open Approach	PX	ICD-10-PCS
06BY0ZZ	Excision of Lower Vein, Open Approach	PX	ICD-10-PCS
06BY3ZC	Excision of Hemorrhoidal Plexus, Percutaneous Approach	PX	ICD-10-PCS
06BY3ZZ	Excision of Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06BY4ZC	Excision of Hemorrhoidal Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06BY4ZZ	Excision of Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06C00ZZ	Extirpation of Matter from Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06C03ZZ	Extirpation of Matter from Inferior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
06C04ZZ	Extirpation of Matter from Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06C10ZZ	Extirpation of Matter from Splenic Vein, Open Approach	PX	ICD-10-PCS
06C13ZZ	Extirpation of Matter from Splenic Vein, Percutaneous Approach	PX	ICD-10-PCS
06C14ZZ	Extirpation of Matter from Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06C20ZZ	Extirpation of Matter from Gastric Vein, Open Approach	PX	ICD-10-PCS
06C23ZZ	Extirpation of Matter from Gastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06C24ZZ	Extirpation of Matter from Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06C30ZZ	Extirpation of Matter from Esophageal Vein, Open Approach	PX	ICD-10-PCS
06C33ZZ	Extirpation of Matter from Esophageal Vein, Percutaneous Approach	PX	ICD-10-PCS
06C34ZZ	Extirpation of Matter from Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06C40ZZ	Extirpation of Matter from Hepatic Vein, Open Approach	PX	ICD-10-PCS
06C43ZZ	Extirpation of Matter from Hepatic Vein, Percutaneous Approach	PX	ICD-10-PCS
06C44ZZ	Extirpation of Matter from Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06C50ZZ	Extirpation of Matter from Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06C53ZZ	Extirpation of Matter from Superior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06C54ZZ	Extirpation of Matter from Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06C60ZZ	Extirpation of Matter from Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06C63ZZ	Extirpation of Matter from Inferior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06C64ZZ	Extirpation of Matter from Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06C70ZZ	Extirpation of Matter from Colic Vein, Open Approach	PX	ICD-10-PCS
06C73ZZ	Extirpation of Matter from Colic Vein, Percutaneous Approach	PX	ICD-10-PCS
06C74ZZ	Extirpation of Matter from Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06C80ZZ	Extirpation of Matter from Portal Vein, Open Approach	PX	ICD-10-PCS
06C83ZZ	Extirpation of Matter from Portal Vein, Percutaneous Approach	PX	ICD-10-PCS
06C84ZZ	Extirpation of Matter from Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06C90ZZ	Extirpation of Matter from Right Renal Vein, Open Approach	PX	ICD-10-PCS
06C93ZZ	Extirpation of Matter from Right Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06C94ZZ	Extirpation of Matter from Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CB0ZZ	Extirpation of Matter from Left Renal Vein, Open Approach	PX	ICD-10-PCS
06CB3ZZ	Extirpation of Matter from Left Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06CB4ZZ	Extirpation of Matter from Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CC0ZZ	Extirpation of Matter from Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06CC3ZZ	Extirpation of Matter from Right Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06CC4ZZ	Extirpation of Matter from Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CD0ZZ	Extirpation of Matter from Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06CD3ZZ	Extirpation of Matter from Left Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06CD4ZZ	Extirpation of Matter from Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CF0ZZ	Extirpation of Matter from Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
06CF3ZZ	Extirpation of Matter from Right External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06CF4ZZ	Extirpation of Matter from Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CG0ZZ	Extirpation of Matter from Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
06CG3ZZ	Extirpation of Matter from Left External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06CG4ZZ	Extirpation of Matter from Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CH0ZZ	Extirpation of Matter from Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06CH3ZZ	Extirpation of Matter from Right Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06CH4ZZ	Extirpation of Matter from Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CJ0ZZ	Extirpation of Matter from Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06CJ3ZZ	Extirpation of Matter from Left Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06CJ4ZZ	Extirpation of Matter from Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CM0ZZ	Extirpation of Matter from Right Femoral Vein, Open Approach	PX	ICD-10-PCS
06CM3ZZ	Extirpation of Matter from Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06CM4ZZ	Extirpation of Matter from Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CN0ZZ	Extirpation of Matter from Left Femoral Vein, Open Approach	PX	ICD-10-PCS
06CN3ZZ	Extirpation of Matter from Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06CN4ZZ	Extirpation of Matter from Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CP0ZZ	Extirpation of Matter from Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
06CP3ZZ	Extirpation of Matter from Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06CP4ZZ	Extirpation of Matter from Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CQ0ZZ	Extirpation of Matter from Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
06CQ3ZZ	Extirpation of Matter from Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06CQ4ZZ	Extirpation of Matter from Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CR0ZZ	Extirpation of Matter from Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06CR3ZZ	Extirpation of Matter from Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06CR4ZZ	Extirpation of Matter from Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CS0ZZ	Extirpation of Matter from Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06CS3ZZ	Extirpation of Matter from Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06CS4ZZ	Extirpation of Matter from Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CT0ZZ	Extirpation of Matter from Right Foot Vein, Open Approach	PX	ICD-10-PCS
06CT3ZZ	Extirpation of Matter from Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06CT4ZZ	Extirpation of Matter from Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CV0ZZ	Extirpation of Matter from Left Foot Vein, Open Approach	PX	ICD-10-PCS
06CV3ZZ	Extirpation of Matter from Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06CV4ZZ	Extirpation of Matter from Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06CY0ZZ	Extirpation of Matter from Lower Vein, Open Approach	PX	ICD-10-PCS
06CY3ZZ	Extirpation of Matter from Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06CY4ZZ	Extirpation of Matter from Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06DM0ZZ	Extraction of Right Femoral Vein, Open Approach	PX	ICD-10-PCS
06DM3ZZ	Extraction of Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06DM4ZZ	Extraction of Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06DN0ZZ	Extraction of Left Femoral Vein, Open Approach	PX	ICD-10-PCS
06DN3ZZ	Extraction of Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06DN4ZZ	Extraction of Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06DP0ZZ	Extraction of Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
06DP3ZZ	Extraction of Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06DP4ZZ	Extraction of Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06DQ0ZZ	Extraction of Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
06DQ3ZZ	Extraction of Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06DQ4ZZ	Extraction of Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06DR0ZZ	Extraction of Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06DR3ZZ	Extraction of Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06DR4ZZ	Extraction of Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06DS0ZZ	Extraction of Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06DS3ZZ	Extraction of Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06DS4ZZ	Extraction of Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06DT0ZZ	Extraction of Right Foot Vein, Open Approach	PX	ICD-10-PCS
06DT3ZZ	Extraction of Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06DT4ZZ	Extraction of Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06DV0ZZ	Extraction of Left Foot Vein, Open Approach	PX	ICD-10-PCS
06DV3ZZ	Extraction of Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06DV4ZZ	Extraction of Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06DY0ZZ	Extraction of Lower Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06DY3ZZ	Extraction of Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06DY4ZZ	Extraction of Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H003Z	Insertion of Infusion Device into Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06H00DZ	Insertion of Intraluminal Device into Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06H043Z	Insertion of Infusion Device into Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H04DZ	Insertion of Intraluminal Device into Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H103Z	Insertion of Infusion Device into Splenic Vein, Open Approach	PX	ICD-10-PCS
06H10DZ	Insertion of Intraluminal Device into Splenic Vein, Open Approach	PX	ICD-10-PCS
06H13DZ	Insertion of Intraluminal Device into Splenic Vein, Percutaneous Approach	PX	ICD-10-PCS
06H143Z	Insertion of Infusion Device into Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H14DZ	Insertion of Intraluminal Device into Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H203Z	Insertion of Infusion Device into Gastric Vein, Open Approach	PX	ICD-10-PCS
06H20DZ	Insertion of Intraluminal Device into Gastric Vein, Open Approach	PX	ICD-10-PCS
06H23DZ	Insertion of Intraluminal Device into Gastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06H243Z	Insertion of Infusion Device into Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H24DZ	Insertion of Intraluminal Device into Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H303Z	Insertion of Infusion Device into Esophageal Vein, Open Approach	PX	ICD-10-PCS
06H30DZ	Insertion of Intraluminal Device into Esophageal Vein, Open Approach	PX	ICD-10-PCS
06H33DZ	Insertion of Intraluminal Device into Esophageal Vein, Percutaneous Approach	PX	ICD-10-PCS
06H343Z	Insertion of Infusion Device into Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H34DZ	Insertion of Intraluminal Device into Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H403Z	Insertion of Infusion Device into Hepatic Vein, Open Approach	PX	ICD-10-PCS
06H40DZ	Insertion of Intraluminal Device into Hepatic Vein, Open Approach	PX	ICD-10-PCS
06H43DZ	Insertion of Intraluminal Device into Hepatic Vein, Percutaneous Approach	PX	ICD-10-PCS
06H443Z	Insertion of Infusion Device into Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H44DZ	Insertion of Intraluminal Device into Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H503Z	Insertion of Infusion Device into Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06H50DZ	Insertion of Intraluminal Device into Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06H53DZ	Insertion of Intraluminal Device into Superior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06H543Z	Insertion of Infusion Device into Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H54DZ	Insertion of Intraluminal Device into Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H603Z	Insertion of Infusion Device into Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06H60DZ	Insertion of Intraluminal Device into Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06H63DZ	Insertion of Intraluminal Device into Inferior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06H643Z	Insertion of Infusion Device into Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H64DZ	Insertion of Intraluminal Device into Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H703Z	Insertion of Infusion Device into Colic Vein, Open Approach	PX	ICD-10-PCS
06H70DZ	Insertion of Intraluminal Device into Colic Vein, Open Approach	PX	ICD-10-PCS
06H73DZ	Insertion of Intraluminal Device into Colic Vein, Percutaneous Approach	PX	ICD-10-PCS
06H743Z	Insertion of Infusion Device into Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H74DZ	Insertion of Intraluminal Device into Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H803Z	Insertion of Infusion Device into Portal Vein, Open Approach	PX	ICD-10-PCS
06H80DZ	Insertion of Intraluminal Device into Portal Vein, Open Approach	PX	ICD-10-PCS
06H83DZ	Insertion of Intraluminal Device into Portal Vein, Percutaneous Approach	PX	ICD-10-PCS
06H843Z	Insertion of Infusion Device into Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H84DZ	Insertion of Intraluminal Device into Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H903Z	Insertion of Infusion Device into Right Renal Vein, Open Approach	PX	ICD-10-PCS
06H90DZ	Insertion of Intraluminal Device into Right Renal Vein, Open Approach	PX	ICD-10-PCS
06H93DZ	Insertion of Intraluminal Device into Right Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06H943Z	Insertion of Infusion Device into Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06H94DZ	Insertion of Intraluminal Device into Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HB03Z	Insertion of Infusion Device into Left Renal Vein, Open Approach	PX	ICD-10-PCS
06HB0DZ	Insertion of Intraluminal Device into Left Renal Vein, Open Approach	PX	ICD-10-PCS
06HB3DZ	Insertion of Intraluminal Device into Left Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06HB43Z	Insertion of Infusion Device into Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HB4DZ	Insertion of Intraluminal Device into Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HC03Z	Insertion of Infusion Device into Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06HC0DZ	Insertion of Intraluminal Device into Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06HC3DZ	Insertion of Intraluminal Device into Right Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06HC43Z	Insertion of Infusion Device into Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HC4DZ	Insertion of Intraluminal Device into Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HD03Z	Insertion of Infusion Device into Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06HD0DZ	Insertion of Intraluminal Device into Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06HD3DZ	Insertion of Intraluminal Device into Left Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06HD43Z	Insertion of Infusion Device into Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HD4DZ	Insertion of Intraluminal Device into Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HF03Z	Insertion of Infusion Device into Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
06HF0DZ	Insertion of Intraluminal Device into Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
06HF3DZ	Insertion of Intraluminal Device into Right External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06HF43Z	Insertion of Infusion Device into Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HF4DZ	Insertion of Intraluminal Device into Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HG03Z	Insertion of Infusion Device into Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
06HG0DZ	Insertion of Intraluminal Device into Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
06HG3DZ	Insertion of Intraluminal Device into Left External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06HG43Z	Insertion of Infusion Device into Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HG4DZ	Insertion of Intraluminal Device into Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HH03Z	Insertion of Infusion Device into Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06HH0DZ	Insertion of Intraluminal Device into Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06HH3DZ	Insertion of Intraluminal Device into Right Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06HH43Z	Insertion of Infusion Device into Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HH4DZ	Insertion of Intraluminal Device into Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HJ03Z	Insertion of Infusion Device into Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06HJ0DZ	Insertion of Intraluminal Device into Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06HJ3DZ	Insertion of Intraluminal Device into Left Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06HJ43Z	Insertion of Infusion Device into Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HJ4DZ	Insertion of Intraluminal Device into Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HM03Z	Insertion of Infusion Device into Right Femoral Vein, Open Approach	PX	ICD-10-PCS
06HM0DZ	Insertion of Intraluminal Device into Right Femoral Vein, Open Approach	PX	ICD-10-PCS
06HM3DZ	Insertion of Intraluminal Device into Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06HM43Z	Insertion of Infusion Device into Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06HM4DZ	Insertion of Intraluminal Device into Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HN03Z	Insertion of Infusion Device into Left Femoral Vein, Open Approach	PX	ICD-10-PCS
06HN0DZ	Insertion of Intraluminal Device into Left Femoral Vein, Open Approach	PX	ICD-10-PCS
06HN3DZ	Insertion of Intraluminal Device into Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06HN43Z	Insertion of Infusion Device into Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HN4DZ	Insertion of Intraluminal Device into Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HP03Z	Insertion of Infusion Device into Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
06HP0DZ	Insertion of Intraluminal Device into Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
06HP3DZ	Insertion of Intraluminal Device into Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06HP43Z	Insertion of Infusion Device into Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HP4DZ	Insertion of Intraluminal Device into Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HQ03Z	Insertion of Infusion Device into Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
06HQ0DZ	Insertion of Intraluminal Device into Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
06HQ3DZ	Insertion of Intraluminal Device into Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06HQ43Z	Insertion of Infusion Device into Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HQ4DZ	Insertion of Intraluminal Device into Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HR0DZ	Insertion of Intraluminal Device into Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06HR3DZ	Insertion of Intraluminal Device into Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06HR4DZ	Insertion of Intraluminal Device into Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HS0DZ	Insertion of Intraluminal Device into Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06HS3DZ	Insertion of Intraluminal Device into Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06HS4DZ	Insertion of Intraluminal Device into Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HT03Z	Insertion of Infusion Device into Right Foot Vein, Open Approach	PX	ICD-10-PCS
06HT0DZ	Insertion of Intraluminal Device into Right Foot Vein, Open Approach	PX	ICD-10-PCS
06HT3DZ	Insertion of Intraluminal Device into Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06HT43Z	Insertion of Infusion Device into Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HT4DZ	Insertion of Intraluminal Device into Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HV03Z	Insertion of Infusion Device into Left Foot Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06HV0DZ	Insertion of Intraluminal Device into Left Foot Vein, Open Approach	PX	ICD-10-PCS
06HV3DZ	Insertion of Intraluminal Device into Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06HV43Z	Insertion of Infusion Device into Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HV4DZ	Insertion of Intraluminal Device into Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HY03Z	Insertion of Infusion Device into Lower Vein, Open Approach	PX	ICD-10-PCS
06HY0DZ	Insertion of Intraluminal Device into Lower Vein, Open Approach	PX	ICD-10-PCS
06HY0YZ	Insertion of Other Device into Lower Vein, Open Approach	PX	ICD-10-PCS
06HY3DZ	Insertion of Intraluminal Device into Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06HY43Z	Insertion of Infusion Device into Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HY4DZ	Insertion of Intraluminal Device into Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06HY4YZ	Insertion of Other Device into Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L00CZ	Occlusion of Inferior Vena Cava with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06L00DZ	Occlusion of Inferior Vena Cava with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06L00ZZ	Occlusion of Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06L03CZ	Occlusion of Inferior Vena Cava with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L03DZ	Occlusion of Inferior Vena Cava with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L03ZZ	Occlusion of Inferior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
06L04CZ	Occlusion of Inferior Vena Cava with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L04DZ	Occlusion of Inferior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L04ZZ	Occlusion of Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L10CZ	Occlusion of Splenic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06L10DZ	Occlusion of Splenic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06L10ZZ	Occlusion of Splenic Vein, Open Approach	PX	ICD-10-PCS
06L13CZ	Occlusion of Splenic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L13DZ	Occlusion of Splenic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L13ZZ	Occlusion of Splenic Vein, Percutaneous Approach	PX	ICD-10-PCS
06L14CZ	Occlusion of Splenic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L14DZ	Occlusion of Splenic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L14ZZ	Occlusion of Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L20CZ	Occlusion of Gastric Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06L20DZ	Occlusion of Gastric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06L20ZZ	Occlusion of Gastric Vein, Open Approach	PX	ICD-10-PCS
06L23CZ	Occlusion of Gastric Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L23DZ	Occlusion of Gastric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L23ZZ	Occlusion of Gastric Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06L24CZ	Occlusion of Gastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L24DZ	Occlusion of Gastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L24ZZ	Occlusion of Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L30CZ	Occlusion of Esophageal Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06L30DZ	Occlusion of Esophageal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06L30ZZ	Occlusion of Esophageal Vein, Open Approach	PX	ICD-10-PCS
06L33CZ	Occlusion of Esophageal Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L33DZ	Occlusion of Esophageal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L33ZZ	Occlusion of Esophageal Vein, Percutaneous Approach	PX	ICD-10-PCS
06L34CZ	Occlusion of Esophageal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L34DZ	Occlusion of Esophageal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L34ZZ	Occlusion of Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L40CZ	Occlusion of Hepatic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06L40DZ	Occlusion of Hepatic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06L40ZZ	Occlusion of Hepatic Vein, Open Approach	PX	ICD-10-PCS
06L43CZ	Occlusion of Hepatic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L43DZ	Occlusion of Hepatic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L43ZZ	Occlusion of Hepatic Vein, Percutaneous Approach	PX	ICD-10-PCS
06L44CZ	Occlusion of Hepatic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L44DZ	Occlusion of Hepatic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L44ZZ	Occlusion of Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L50CZ	Occlusion of Superior Mesenteric Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06L50DZ	Occlusion of Superior Mesenteric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06L50ZZ	Occlusion of Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06L53CZ	Occlusion of Superior Mesenteric Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L53DZ	Occlusion of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L53ZZ	Occlusion of Superior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06L54CZ	Occlusion of Superior Mesenteric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L54DZ	Occlusion of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L54ZZ	Occlusion of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L60CZ	Occlusion of Inferior Mesenteric Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06L60DZ	Occlusion of Inferior Mesenteric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06L60ZZ	Occlusion of Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06L63CZ	Occlusion of Inferior Mesenteric Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06L63DZ	Occlusion of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L63ZZ	Occlusion of Inferior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06L64CZ	Occlusion of Inferior Mesenteric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L64DZ	Occlusion of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L64ZZ	Occlusion of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L70CZ	Occlusion of Colic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06L70DZ	Occlusion of Colic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06L70ZZ	Occlusion of Colic Vein, Open Approach	PX	ICD-10-PCS
06L73CZ	Occlusion of Colic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L73DZ	Occlusion of Colic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L73ZZ	Occlusion of Colic Vein, Percutaneous Approach	PX	ICD-10-PCS
06L74CZ	Occlusion of Colic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L74DZ	Occlusion of Colic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L74ZZ	Occlusion of Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L80CZ	Occlusion of Portal Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06L80DZ	Occlusion of Portal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06L80ZZ	Occlusion of Portal Vein, Open Approach	PX	ICD-10-PCS
06L83CZ	Occlusion of Portal Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L83DZ	Occlusion of Portal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L83ZZ	Occlusion of Portal Vein, Percutaneous Approach	PX	ICD-10-PCS
06L84CZ	Occlusion of Portal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L84DZ	Occlusion of Portal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L84ZZ	Occlusion of Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L90CZ	Occlusion of Right Renal Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06L90DZ	Occlusion of Right Renal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06L90ZZ	Occlusion of Right Renal Vein, Open Approach	PX	ICD-10-PCS
06L93CZ	Occlusion of Right Renal Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L93DZ	Occlusion of Right Renal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06L93ZZ	Occlusion of Right Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06L94CZ	Occlusion of Right Renal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L94DZ	Occlusion of Right Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06L94ZZ	Occlusion of Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LB0CZ	Occlusion of Left Renal Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LB0DZ	Occlusion of Left Renal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LB0ZZ	Occlusion of Left Renal Vein, Open Approach	PX	ICD-10-PCS
06LB3CZ	Occlusion of Left Renal Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06LB3DZ	Occlusion of Left Renal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LB3ZZ	Occlusion of Left Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06LB4CZ	Occlusion of Left Renal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LB4DZ	Occlusion of Left Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LB4ZZ	Occlusion of Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LC0CZ	Occlusion of Right Common Iliac Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LC0DZ	Occlusion of Right Common Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LC0ZZ	Occlusion of Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06LC3CZ	Occlusion of Right Common Iliac Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LC3DZ	Occlusion of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LC3ZZ	Occlusion of Right Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06LC4CZ	Occlusion of Right Common Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LC4DZ	Occlusion of Right Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LC4ZZ	Occlusion of Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LD0CZ	Occlusion of Left Common Iliac Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LD0DZ	Occlusion of Left Common Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LD0ZZ	Occlusion of Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06LD3CZ	Occlusion of Left Common Iliac Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LD3DZ	Occlusion of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LD3ZZ	Occlusion of Left Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06LD4CZ	Occlusion of Left Common Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LD4DZ	Occlusion of Left Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LD4ZZ	Occlusion of Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LF0CZ	Occlusion of Right External Iliac Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LF0DZ	Occlusion of Right External Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LF0ZZ	Occlusion of Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
06LF3CZ	Occlusion of Right External Iliac Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LF3DZ	Occlusion of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LF3ZZ	Occlusion of Right External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06LF4CZ	Occlusion of Right External Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LF4DZ	Occlusion of Right External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06LF4ZZ	Occlusion of Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LG0CZ	Occlusion of Left External Iliac Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LG0DZ	Occlusion of Left External Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LG0ZZ	Occlusion of Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
06LG3CZ	Occlusion of Left External Iliac Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LG3DZ	Occlusion of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LG3ZZ	Occlusion of Left External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06LG4CZ	Occlusion of Left External Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LG4DZ	Occlusion of Left External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LG4ZZ	Occlusion of Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LH0CZ	Occlusion of Right Hypogastric Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LH0DZ	Occlusion of Right Hypogastric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LH0ZZ	Occlusion of Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06LH3CZ	Occlusion of Right Hypogastric Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LH3DZ	Occlusion of Right Hypogastric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LH3ZZ	Occlusion of Right Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06LH4CZ	Occlusion of Right Hypogastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LH4DZ	Occlusion of Right Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LH4ZZ	Occlusion of Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LJ0CZ	Occlusion of Left Hypogastric Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LJ0DZ	Occlusion of Left Hypogastric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LJ0ZZ	Occlusion of Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06LJ3CZ	Occlusion of Left Hypogastric Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LJ3DZ	Occlusion of Left Hypogastric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LJ3ZZ	Occlusion of Left Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06LJ4CZ	Occlusion of Left Hypogastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LJ4DZ	Occlusion of Left Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LJ4ZZ	Occlusion of Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LM0CZ	Occlusion of Right Femoral Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LM0DZ	Occlusion of Right Femoral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LM0ZZ	Occlusion of Right Femoral Vein, Open Approach	PX	ICD-10-PCS
06LM3CZ	Occlusion of Right Femoral Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06LM3DZ	Occlusion of Right Femoral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LM3ZZ	Occlusion of Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06LM4CZ	Occlusion of Right Femoral Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LM4DZ	Occlusion of Right Femoral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LM4ZZ	Occlusion of Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LN0CZ	Occlusion of Left Femoral Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LN0DZ	Occlusion of Left Femoral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LN0ZZ	Occlusion of Left Femoral Vein, Open Approach	PX	ICD-10-PCS
06LN3CZ	Occlusion of Left Femoral Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LN3DZ	Occlusion of Left Femoral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LN3ZZ	Occlusion of Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06LN4CZ	Occlusion of Left Femoral Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LN4DZ	Occlusion of Left Femoral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LN4ZZ	Occlusion of Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LP0CZ	Occlusion of Right Saphenous Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LP0DZ	Occlusion of Right Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LP0ZZ	Occlusion of Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
06LP3CZ	Occlusion of Right Saphenous Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LP3DZ	Occlusion of Right Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LP3ZZ	Occlusion of Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06LP4CZ	Occlusion of Right Saphenous Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LP4DZ	Occlusion of Right Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LP4ZZ	Occlusion of Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LQ0CZ	Occlusion of Left Saphenous Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LQ0DZ	Occlusion of Left Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LQ0ZZ	Occlusion of Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
06LQ3CZ	Occlusion of Left Saphenous Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LQ3DZ	Occlusion of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LQ3ZZ	Occlusion of Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06LQ4CZ	Occlusion of Left Saphenous Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06LQ4DZ	Occlusion of Left Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LQ4ZZ	Occlusion of Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LR0CZ	Occlusion of Right Lesser Saphenous Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LR0DZ	Occlusion of Right Lesser Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LR0ZZ	Occlusion of Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06LR3CZ	Occlusion of Right Lesser Saphenous Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LR3DZ	Occlusion of Right Lesser Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LR3ZZ	Occlusion of Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06LR4CZ	Occlusion of Right Lesser Saphenous Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LR4DZ	Occlusion of Right Lesser Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LR4ZZ	Occlusion of Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LS0CZ	Occlusion of Left Lesser Saphenous Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LS0DZ	Occlusion of Left Lesser Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LS0ZZ	Occlusion of Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06LS3CZ	Occlusion of Left Lesser Saphenous Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LS3DZ	Occlusion of Left Lesser Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LS3ZZ	Occlusion of Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06LS4CZ	Occlusion of Left Lesser Saphenous Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LS4DZ	Occlusion of Left Lesser Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LS4ZZ	Occlusion of Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LT0CZ	Occlusion of Right Foot Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LT0DZ	Occlusion of Right Foot Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LT0ZZ	Occlusion of Right Foot Vein, Open Approach	PX	ICD-10-PCS
06LT3CZ	Occlusion of Right Foot Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LT3DZ	Occlusion of Right Foot Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LT3ZZ	Occlusion of Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06LT4CZ	Occlusion of Right Foot Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LT4DZ	Occlusion of Right Foot Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LT4ZZ	Occlusion of Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LV0CZ	Occlusion of Left Foot Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06LV0DZ	Occlusion of Left Foot Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LV0ZZ	Occlusion of Left Foot Vein, Open Approach	PX	ICD-10-PCS
06LV3CZ	Occlusion of Left Foot Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LV3DZ	Occlusion of Left Foot Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LV3ZZ	Occlusion of Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06LV4CZ	Occlusion of Left Foot Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LV4DZ	Occlusion of Left Foot Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LV4ZZ	Occlusion of Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LY0CC	Occlusion of Hemorrhoidal Plexus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LY0CZ	Occlusion of Lower Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06LY0DC	Occlusion of Hemorrhoidal Plexus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LY0DZ	Occlusion of Lower Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06LY0ZC	Occlusion of Hemorrhoidal Plexus, Open Approach	PX	ICD-10-PCS
06LY0ZZ	Occlusion of Lower Vein, Open Approach	PX	ICD-10-PCS
06LY3CC	Occlusion of Hemorrhoidal Plexus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LY3CZ	Occlusion of Lower Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LY3DC	Occlusion of Hemorrhoidal Plexus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LY3DZ	Occlusion of Lower Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06LY3ZC	Occlusion of Hemorrhoidal Plexus, Percutaneous Approach	PX	ICD-10-PCS
06LY3ZZ	Occlusion of Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06LY4CC	Occlusion of Hemorrhoidal Plexus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LY4CZ	Occlusion of Lower Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LY4DC	Occlusion of Hemorrhoidal Plexus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LY4DZ	Occlusion of Lower Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LY4ZC	Occlusion of Hemorrhoidal Plexus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LY4ZZ	Occlusion of Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06LY7CC	Occlusion of Hemorrhoidal Plexus with Extraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
06LY7CZ	Occlusion of Lower Vein with Extraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
06LY7DC	Occlusion of Hemorrhoidal Plexus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
06LY7DZ	Occlusion of Lower Vein with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
06LY7ZC	Occlusion of Hemorrhoidal Plexus, Via Natural or Artificial Opening	PX	ICD-10-PCS
06LY7ZZ	Occlusion of Lower Vein, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06LY8CC	Occlusion of Hemorrhoidal Plexus with Extraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
06LY8CZ	Occlusion of Lower Vein with Extraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
06LY8DC	Occlusion of Hemorrhoidal Plexus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
06LY8DZ	Occlusion of Lower Vein with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
06LY8ZC	Occlusion of Hemorrhoidal Plexus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
06LY8ZZ	Occlusion of Lower Vein, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
06N00ZZ	Release Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06N03ZZ	Release Inferior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
06N04ZZ	Release Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06N10ZZ	Release Splenic Vein, Open Approach	PX	ICD-10-PCS
06N13ZZ	Release Splenic Vein, Percutaneous Approach	PX	ICD-10-PCS
06N14ZZ	Release Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06N20ZZ	Release Gastric Vein, Open Approach	PX	ICD-10-PCS
06N23ZZ	Release Gastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06N24ZZ	Release Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06N30ZZ	Release Esophageal Vein, Open Approach	PX	ICD-10-PCS
06N33ZZ	Release Esophageal Vein, Percutaneous Approach	PX	ICD-10-PCS
06N34ZZ	Release Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06N40ZZ	Release Hepatic Vein, Open Approach	PX	ICD-10-PCS
06N43ZZ	Release Hepatic Vein, Percutaneous Approach	PX	ICD-10-PCS
06N44ZZ	Release Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06N50ZZ	Release Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06N53ZZ	Release Superior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06N54ZZ	Release Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06N60ZZ	Release Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06N63ZZ	Release Inferior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06N64ZZ	Release Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06N70ZZ	Release Colic Vein, Open Approach	PX	ICD-10-PCS
06N73ZZ	Release Colic Vein, Percutaneous Approach	PX	ICD-10-PCS
06N74ZZ	Release Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06N80ZZ	Release Portal Vein, Open Approach	PX	ICD-10-PCS
06N83ZZ	Release Portal Vein, Percutaneous Approach	PX	ICD-10-PCS
06N84ZZ	Release Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06N90ZZ	Release Right Renal Vein, Open Approach	PX	ICD-10-PCS
06N93ZZ	Release Right Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06N94ZZ	Release Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NB0ZZ	Release Left Renal Vein, Open Approach	PX	ICD-10-PCS
06NB3ZZ	Release Left Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06NB4ZZ	Release Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NC0ZZ	Release Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06NC3ZZ	Release Right Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06NC4ZZ	Release Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06ND0ZZ	Release Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06ND3ZZ	Release Left Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06ND4ZZ	Release Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NF0ZZ	Release Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
06NF3ZZ	Release Right External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06NF4ZZ	Release Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NG0ZZ	Release Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
06NG3ZZ	Release Left External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06NG4ZZ	Release Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NH0ZZ	Release Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06NH3ZZ	Release Right Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06NH4ZZ	Release Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NJ0ZZ	Release Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06NJ3ZZ	Release Left Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06NJ4ZZ	Release Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NM0ZZ	Release Right Femoral Vein, Open Approach	PX	ICD-10-PCS
06NM3ZZ	Release Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06NM4ZZ	Release Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NN0ZZ	Release Left Femoral Vein, Open Approach	PX	ICD-10-PCS
06NN3ZZ	Release Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06NN4ZZ	Release Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NP0ZZ	Release Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
06NP3ZZ	Release Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06NP4ZZ	Release Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NQ0ZZ	Release Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
06NQ3ZZ	Release Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06NQ4ZZ	Release Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NR0ZZ	Release Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06NR3ZZ	Release Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06NR4ZZ	Release Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NS0ZZ	Release Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06NS3ZZ	Release Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06NS4ZZ	Release Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NT0ZZ	Release Right Foot Vein, Open Approach	PX	ICD-10-PCS
06NT3ZZ	Release Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06NT4ZZ	Release Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NV0ZZ	Release Left Foot Vein, Open Approach	PX	ICD-10-PCS
06NV3ZZ	Release Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06NV4ZZ	Release Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06NY0ZZ	Release Lower Vein, Open Approach	PX	ICD-10-PCS
06NY3ZZ	Release Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06NY4ZZ	Release Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06PY00Z	Removal of Drainage Device from Lower Vein, Open Approach	PX	ICD-10-PCS
06PY02Z	Removal of Monitoring Device from Lower Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06PY03Z	Removal of Infusion Device from Lower Vein, Open Approach	PX	ICD-10-PCS
06PY07Z	Removal of Autologous Tissue Substitute from Lower Vein, Open Approach	PX	ICD-10-PCS
06PY0CZ	Removal of Extraluminal Device from Lower Vein, Open Approach	PX	ICD-10-PCS
06PY0DZ	Removal of Intraluminal Device from Lower Vein, Open Approach	PX	ICD-10-PCS
06PY0JZ	Removal of Synthetic Substitute from Lower Vein, Open Approach	PX	ICD-10-PCS
06PY0KZ	Removal of Nonautologous Tissue Substitute from Lower Vein, Open Approach	PX	ICD-10-PCS
06PY0YZ	Removal of Other Device from Lower Vein, Open Approach	PX	ICD-10-PCS
06PY37Z	Removal of Autologous Tissue Substitute from Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06PY3CZ	Removal of Extraluminal Device from Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06PY3JZ	Removal of Synthetic Substitute from Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06PY3KZ	Removal of Nonautologous Tissue Substitute from Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06PY40Z	Removal of Drainage Device from Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06PY42Z	Removal of Monitoring Device from Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06PY43Z	Removal of Infusion Device from Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06PY47Z	Removal of Autologous Tissue Substitute from Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06PY4CZ	Removal of Extraluminal Device from Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06PY4DZ	Removal of Intraluminal Device from Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06PY4JZ	Removal of Synthetic Substitute from Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06PY4KZ	Removal of Nonautologous Tissue Substitute from Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06PY4YZ	Removal of Other Device from Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06Q00ZZ	Repair Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06Q03ZZ	Repair Inferior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
06Q04ZZ	Repair Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06Q10ZZ	Repair Splenic Vein, Open Approach	PX	ICD-10-PCS
06Q13ZZ	Repair Splenic Vein, Percutaneous Approach	PX	ICD-10-PCS
06Q14ZZ	Repair Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06Q20ZZ	Repair Gastric Vein, Open Approach	PX	ICD-10-PCS
06Q23ZZ	Repair Gastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06Q24ZZ	Repair Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06Q30ZZ	Repair Esophageal Vein, Open Approach	PX	ICD-10-PCS
06Q33ZZ	Repair Esophageal Vein, Percutaneous Approach	PX	ICD-10-PCS
06Q34ZZ	Repair Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06Q40ZZ	Repair Hepatic Vein, Open Approach	PX	ICD-10-PCS
06Q43ZZ	Repair Hepatic Vein, Percutaneous Approach	PX	ICD-10-PCS
06Q44ZZ	Repair Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06Q50ZZ	Repair Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06Q53ZZ	Repair Superior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06Q54ZZ	Repair Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06Q60ZZ	Repair Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06Q63ZZ	Repair Inferior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06Q64ZZ	Repair Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06Q70ZZ	Repair Colic Vein, Open Approach	PX	ICD-10-PCS
06Q73ZZ	Repair Colic Vein, Percutaneous Approach	PX	ICD-10-PCS
06Q74ZZ	Repair Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06Q80ZZ	Repair Portal Vein, Open Approach	PX	ICD-10-PCS
06Q83ZZ	Repair Portal Vein, Percutaneous Approach	PX	ICD-10-PCS
06Q84ZZ	Repair Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06Q90ZZ	Repair Right Renal Vein, Open Approach	PX	ICD-10-PCS
06Q93ZZ	Repair Right Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06Q94ZZ	Repair Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QB0ZZ	Repair Left Renal Vein, Open Approach	PX	ICD-10-PCS
06QB3ZZ	Repair Left Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06QB4ZZ	Repair Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QC0ZZ	Repair Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06QC3ZZ	Repair Right Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06QC4ZZ	Repair Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QD0ZZ	Repair Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06QD3ZZ	Repair Left Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06QD4ZZ	Repair Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QF0ZZ	Repair Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
06QF3ZZ	Repair Right External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06QF4ZZ	Repair Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QG0ZZ	Repair Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
06QG3ZZ	Repair Left External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06QG4ZZ	Repair Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QH0ZZ	Repair Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06QH3ZZ	Repair Right Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06QH4ZZ	Repair Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QJ0ZZ	Repair Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06QJ3ZZ	Repair Left Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06QJ4ZZ	Repair Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QM0ZZ	Repair Right Femoral Vein, Open Approach	PX	ICD-10-PCS
06QM3ZZ	Repair Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06QM4ZZ	Repair Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QN0ZZ	Repair Left Femoral Vein, Open Approach	PX	ICD-10-PCS
06QN3ZZ	Repair Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06QN4ZZ	Repair Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QP0ZZ	Repair Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
06QP3ZZ	Repair Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06QP4ZZ	Repair Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06QQ0ZZ	Repair Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
06QQ3ZZ	Repair Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06QQ4ZZ	Repair Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QR0ZZ	Repair Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06QR3ZZ	Repair Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06QR4ZZ	Repair Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QS0ZZ	Repair Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06QS3ZZ	Repair Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06QS4ZZ	Repair Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QT0ZZ	Repair Right Foot Vein, Open Approach	PX	ICD-10-PCS
06QT3ZZ	Repair Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06QT4ZZ	Repair Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QV0ZZ	Repair Left Foot Vein, Open Approach	PX	ICD-10-PCS
06QV3ZZ	Repair Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06QV4ZZ	Repair Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06QY0ZZ	Repair Lower Vein, Open Approach	PX	ICD-10-PCS
06QY3ZZ	Repair Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06QY4ZZ	Repair Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R007Z	Replacement of Inferior Vena Cava with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R00JZ	Replacement of Inferior Vena Cava with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06R00KZ	Replacement of Inferior Vena Cava with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R047Z	Replacement of Inferior Vena Cava with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R04JZ	Replacement of Inferior Vena Cava with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R04KZ	Replacement of Inferior Vena Cava with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R107Z	Replacement of Splenic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R10JZ	Replacement of Splenic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06R10KZ	Replacement of Splenic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R147Z	Replacement of Splenic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R14JZ	Replacement of Splenic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R14KZ	Replacement of Splenic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R207Z	Replacement of Gastric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R20JZ	Replacement of Gastric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06R20KZ	Replacement of Gastric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R247Z	Replacement of Gastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06R24JZ	Replacement of Gastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R24KZ	Replacement of Gastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R307Z	Replacement of Esophageal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R30JZ	Replacement of Esophageal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06R30KZ	Replacement of Esophageal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R347Z	Replacement of Esophageal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R34JZ	Replacement of Esophageal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R34KZ	Replacement of Esophageal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R407Z	Replacement of Hepatic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R40JZ	Replacement of Hepatic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06R40KZ	Replacement of Hepatic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R447Z	Replacement of Hepatic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R44JZ	Replacement of Hepatic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R44KZ	Replacement of Hepatic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R507Z	Replacement of Superior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R50JZ	Replacement of Superior Mesenteric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06R50KZ	Replacement of Superior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R547Z	Replacement of Superior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R54JZ	Replacement of Superior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R54KZ	Replacement of Superior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R607Z	Replacement of Inferior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R60JZ	Replacement of Inferior Mesenteric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06R60KZ	Replacement of Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06R647Z	Replacement of Inferior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R64JZ	Replacement of Inferior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R64KZ	Replacement of Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R707Z	Replacement of Colic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R70JZ	Replacement of Colic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06R70KZ	Replacement of Colic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R747Z	Replacement of Colic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R74JZ	Replacement of Colic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R74KZ	Replacement of Colic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R807Z	Replacement of Portal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R80JZ	Replacement of Portal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06R80KZ	Replacement of Portal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R847Z	Replacement of Portal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R84JZ	Replacement of Portal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R84KZ	Replacement of Portal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R907Z	Replacement of Right Renal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R90JZ	Replacement of Right Renal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06R90KZ	Replacement of Right Renal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06R947Z	Replacement of Right Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R94JZ	Replacement of Right Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06R94KZ	Replacement of Right Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RB07Z	Replacement of Left Renal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RB0JZ	Replacement of Left Renal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RB0KZ	Replacement of Left Renal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RB47Z	Replacement of Left Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06RB4JZ	Replacement of Left Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RB4KZ	Replacement of Left Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RC07Z	Replacement of Right Common Iliac Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RC0JZ	Replacement of Right Common Iliac Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RC0KZ	Replacement of Right Common Iliac Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RC47Z	Replacement of Right Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RC4JZ	Replacement of Right Common Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RC4KZ	Replacement of Right Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RD07Z	Replacement of Left Common Iliac Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RD0JZ	Replacement of Left Common Iliac Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RD0KZ	Replacement of Left Common Iliac Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RD47Z	Replacement of Left Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RD4JZ	Replacement of Left Common Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RD4KZ	Replacement of Left Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RF07Z	Replacement of Right External Iliac Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RF0JZ	Replacement of Right External Iliac Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RF0KZ	Replacement of Right External Iliac Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RF47Z	Replacement of Right External Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RF4JZ	Replacement of Right External Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RF4KZ	Replacement of Right External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RG07Z	Replacement of Left External Iliac Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RG0JZ	Replacement of Left External Iliac Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06RG0KZ	Replacement of Left External Iliac Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RG47Z	Replacement of Left External Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RG4JZ	Replacement of Left External Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RG4KZ	Replacement of Left External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RH07Z	Replacement of Right Hypogastric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RH0JZ	Replacement of Right Hypogastric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RH0KZ	Replacement of Right Hypogastric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RH47Z	Replacement of Right Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RH4JZ	Replacement of Right Hypogastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RH4KZ	Replacement of Right Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RJ07Z	Replacement of Left Hypogastric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RJ0JZ	Replacement of Left Hypogastric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RJ0KZ	Replacement of Left Hypogastric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RJ47Z	Replacement of Left Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RJ4JZ	Replacement of Left Hypogastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RJ4KZ	Replacement of Left Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RM07Z	Replacement of Right Femoral Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RM0JZ	Replacement of Right Femoral Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RM0KZ	Replacement of Right Femoral Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RM47Z	Replacement of Right Femoral Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RM4JZ	Replacement of Right Femoral Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RM4KZ	Replacement of Right Femoral Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RN07Z	Replacement of Left Femoral Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RN0JZ	Replacement of Left Femoral Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06RN0KZ	Replacement of Left Femoral Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RN47Z	Replacement of Left Femoral Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RN4JZ	Replacement of Left Femoral Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RN4KZ	Replacement of Left Femoral Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RP07Z	Replacement of Right Saphenous Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RP0JZ	Replacement of Right Saphenous Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RP0KZ	Replacement of Right Saphenous Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RP47Z	Replacement of Right Saphenous Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RP4JZ	Replacement of Right Saphenous Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RP4KZ	Replacement of Right Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RQ07Z	Replacement of Left Saphenous Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RQ0JZ	Replacement of Left Saphenous Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RQ0KZ	Replacement of Left Saphenous Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RQ47Z	Replacement of Left Saphenous Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RQ4JZ	Replacement of Left Saphenous Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RQ4KZ	Replacement of Left Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RR07Z	Replacement of Right Lesser Saphenous Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RR0JZ	Replacement of Right Lesser Saphenous Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RR0KZ	Replacement of Right Lesser Saphenous Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RR47Z	Replacement of Right Lesser Saphenous Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RR4JZ	Replacement of Right Lesser Saphenous Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RR4KZ	Replacement of Right Lesser Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RS07Z	Replacement of Left Lesser Saphenous Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06RS0JZ	Replacement of Left Lesser Saphenous Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RS0KZ	Replacement of Left Lesser Saphenous Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RS47Z	Replacement of Left Lesser Saphenous Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RS4JZ	Replacement of Left Lesser Saphenous Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RS4KZ	Replacement of Left Lesser Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RT07Z	Replacement of Right Foot Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RT0JZ	Replacement of Right Foot Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RT0KZ	Replacement of Right Foot Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RT47Z	Replacement of Right Foot Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RT4JZ	Replacement of Right Foot Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RT4KZ	Replacement of Right Foot Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RV07Z	Replacement of Left Foot Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RV0JZ	Replacement of Left Foot Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RV0KZ	Replacement of Left Foot Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RV47Z	Replacement of Left Foot Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RV4JZ	Replacement of Left Foot Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RV4KZ	Replacement of Left Foot Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RY07Z	Replacement of Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RY0JZ	Replacement of Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06RY0KZ	Replacement of Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06RY47Z	Replacement of Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RY4JZ	Replacement of Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06RY4KZ	Replacement of Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06S00ZZ	Reposition Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06S03ZZ	Reposition Inferior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
06S04ZZ	Reposition Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06S10ZZ	Reposition Splenic Vein, Open Approach	PX	ICD-10-PCS
06S13ZZ	Reposition Splenic Vein, Percutaneous Approach	PX	ICD-10-PCS
06S14ZZ	Reposition Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06S20ZZ	Reposition Gastric Vein, Open Approach	PX	ICD-10-PCS
06S23ZZ	Reposition Gastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06S24ZZ	Reposition Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06S30ZZ	Reposition Esophageal Vein, Open Approach	PX	ICD-10-PCS
06S33ZZ	Reposition Esophageal Vein, Percutaneous Approach	PX	ICD-10-PCS
06S34ZZ	Reposition Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06S40ZZ	Reposition Hepatic Vein, Open Approach	PX	ICD-10-PCS
06S43ZZ	Reposition Hepatic Vein, Percutaneous Approach	PX	ICD-10-PCS
06S44ZZ	Reposition Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06S50ZZ	Reposition Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06S53ZZ	Reposition Superior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06S54ZZ	Reposition Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06S60ZZ	Reposition Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06S63ZZ	Reposition Inferior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06S64ZZ	Reposition Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06S70ZZ	Reposition Colic Vein, Open Approach	PX	ICD-10-PCS
06S73ZZ	Reposition Colic Vein, Percutaneous Approach	PX	ICD-10-PCS
06S74ZZ	Reposition Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06S80ZZ	Reposition Portal Vein, Open Approach	PX	ICD-10-PCS
06S83ZZ	Reposition Portal Vein, Percutaneous Approach	PX	ICD-10-PCS
06S84ZZ	Reposition Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06S90ZZ	Reposition Right Renal Vein, Open Approach	PX	ICD-10-PCS
06S93ZZ	Reposition Right Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06S94ZZ	Reposition Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SB0ZZ	Reposition Left Renal Vein, Open Approach	PX	ICD-10-PCS
06SB3ZZ	Reposition Left Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06SB4ZZ	Reposition Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SC0ZZ	Reposition Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06SC3ZZ	Reposition Right Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06SC4ZZ	Reposition Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SD0ZZ	Reposition Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06SD3ZZ	Reposition Left Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06SD4ZZ	Reposition Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SF0ZZ	Reposition Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
06SF3ZZ	Reposition Right External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06SF4ZZ	Reposition Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SG0ZZ	Reposition Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
06SG3ZZ	Reposition Left External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06SG4ZZ	Reposition Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SH0ZZ	Reposition Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06SH3ZZ	Reposition Right Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06SH4ZZ	Reposition Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06SJ0ZZ	Reposition Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06SJ3ZZ	Reposition Left Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06SJ4ZZ	Reposition Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SM0ZZ	Reposition Right Femoral Vein, Open Approach	PX	ICD-10-PCS
06SM3ZZ	Reposition Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06SM4ZZ	Reposition Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SN0ZZ	Reposition Left Femoral Vein, Open Approach	PX	ICD-10-PCS
06SN3ZZ	Reposition Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06SN4ZZ	Reposition Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SP0ZZ	Reposition Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
06SP3ZZ	Reposition Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06SP4ZZ	Reposition Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SQ0ZZ	Reposition Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
06SQ3ZZ	Reposition Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06SQ4ZZ	Reposition Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SR0ZZ	Reposition Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06SR3ZZ	Reposition Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06SR4ZZ	Reposition Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SS0ZZ	Reposition Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06SS3ZZ	Reposition Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06SS4ZZ	Reposition Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06ST0ZZ	Reposition Right Foot Vein, Open Approach	PX	ICD-10-PCS
06ST3ZZ	Reposition Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06ST4ZZ	Reposition Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SV0ZZ	Reposition Left Foot Vein, Open Approach	PX	ICD-10-PCS
06SV3ZZ	Reposition Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06SV4ZZ	Reposition Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06SY0ZZ	Reposition Lower Vein, Open Approach	PX	ICD-10-PCS
06SY3ZZ	Reposition Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06SY4ZZ	Reposition Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U007Z	Supplement Inferior Vena Cava with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U00JZ	Supplement Inferior Vena Cava with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06U00KZ	Supplement Inferior Vena Cava with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U037Z	Supplement Inferior Vena Cava with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U03JZ	Supplement Inferior Vena Cava with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U03KZ	Supplement Inferior Vena Cava with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U047Z	Supplement Inferior Vena Cava with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U04JZ	Supplement Inferior Vena Cava with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06U04KZ	Supplement Inferior Vena Cava with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U107Z	Supplement Splenic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U10JZ	Supplement Splenic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06U10KZ	Supplement Splenic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U137Z	Supplement Splenic Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U13JZ	Supplement Splenic Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U13KZ	Supplement Splenic Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U147Z	Supplement Splenic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U14JZ	Supplement Splenic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U14KZ	Supplement Splenic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U207Z	Supplement Gastric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U20JZ	Supplement Gastric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06U20KZ	Supplement Gastric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U237Z	Supplement Gastric Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U23JZ	Supplement Gastric Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U23KZ	Supplement Gastric Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U247Z	Supplement Gastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U24JZ	Supplement Gastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U24KZ	Supplement Gastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U307Z	Supplement Esophageal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U30JZ	Supplement Esophageal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06U30KZ	Supplement Esophageal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U337Z	Supplement Esophageal Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U33JZ	Supplement Esophageal Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U33KZ	Supplement Esophageal Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U347Z	Supplement Esophageal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U34JZ	Supplement Esophageal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06U34KZ	Supplement Esophageal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U407Z	Supplement Hepatic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U40JZ	Supplement Hepatic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06U40KZ	Supplement Hepatic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U437Z	Supplement Hepatic Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U43JZ	Supplement Hepatic Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U43KZ	Supplement Hepatic Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U447Z	Supplement Hepatic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U44JZ	Supplement Hepatic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U44KZ	Supplement Hepatic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U507Z	Supplement Superior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U50JZ	Supplement Superior Mesenteric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06U50KZ	Supplement Superior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U537Z	Supplement Superior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U53JZ	Supplement Superior Mesenteric Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U53KZ	Supplement Superior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U547Z	Supplement Superior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U54JZ	Supplement Superior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U54KZ	Supplement Superior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U607Z	Supplement Inferior Mesenteric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U60JZ	Supplement Inferior Mesenteric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06U60KZ	Supplement Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U637Z	Supplement Inferior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U63JZ	Supplement Inferior Mesenteric Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06U63KZ	Supplement Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U647Z	Supplement Inferior Mesenteric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U64JZ	Supplement Inferior Mesenteric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U64KZ	Supplement Inferior Mesenteric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U707Z	Supplement Colic Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U70JZ	Supplement Colic Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06U70KZ	Supplement Colic Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U737Z	Supplement Colic Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U73JZ	Supplement Colic Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U73KZ	Supplement Colic Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U747Z	Supplement Colic Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U74JZ	Supplement Colic Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U74KZ	Supplement Colic Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U807Z	Supplement Portal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U80JZ	Supplement Portal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06U80KZ	Supplement Portal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U837Z	Supplement Portal Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U83JZ	Supplement Portal Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U83KZ	Supplement Portal Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U847Z	Supplement Portal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U84JZ	Supplement Portal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U84KZ	Supplement Portal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U907Z	Supplement Right Renal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U90JZ	Supplement Right Renal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06U90KZ	Supplement Right Renal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06U937Z	Supplement Right Renal Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U93JZ	Supplement Right Renal Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06U93KZ	Supplement Right Renal Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06U947Z	Supplement Right Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U94JZ	Supplement Right Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06U94KZ	Supplement Right Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UB07Z	Supplement Left Renal Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UB0JZ	Supplement Left Renal Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UB0KZ	Supplement Left Renal Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UB37Z	Supplement Left Renal Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UB3JZ	Supplement Left Renal Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UB3KZ	Supplement Left Renal Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UB47Z	Supplement Left Renal Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UB4JZ	Supplement Left Renal Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UB4KZ	Supplement Left Renal Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UC07Z	Supplement Right Common Iliac Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UC0JZ	Supplement Right Common Iliac Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UC0KZ	Supplement Right Common Iliac Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UC37Z	Supplement Right Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UC3JZ	Supplement Right Common Iliac Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UC3KZ	Supplement Right Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UC47Z	Supplement Right Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UC4JZ	Supplement Right Common Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UC4KZ	Supplement Right Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UD07Z	Supplement Left Common Iliac Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UD0JZ	Supplement Left Common Iliac Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UD0KZ	Supplement Left Common Iliac Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06UD37Z	Supplement Left Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UD3JZ	Supplement Left Common Iliac Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UD3KZ	Supplement Left Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UD47Z	Supplement Left Common Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UD4JZ	Supplement Left Common Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UD4KZ	Supplement Left Common Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UF07Z	Supplement Right External Iliac Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UF0JZ	Supplement Right External Iliac Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UF0KZ	Supplement Right External Iliac Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UF37Z	Supplement Right External Iliac Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UF3JZ	Supplement Right External Iliac Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UF3KZ	Supplement Right External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UF47Z	Supplement Right External Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UF4JZ	Supplement Right External Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UF4KZ	Supplement Right External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UG07Z	Supplement Left External Iliac Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UG0JZ	Supplement Left External Iliac Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UG0KZ	Supplement Left External Iliac Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UG37Z	Supplement Left External Iliac Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UG3JZ	Supplement Left External Iliac Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UG3KZ	Supplement Left External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UG47Z	Supplement Left External Iliac Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UG4JZ	Supplement Left External Iliac Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06UG4KZ	Supplement Left External Iliac Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UH07Z	Supplement Right Hypogastric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UH0JZ	Supplement Right Hypogastric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UH0KZ	Supplement Right Hypogastric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UH37Z	Supplement Right Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UH3JZ	Supplement Right Hypogastric Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UH3KZ	Supplement Right Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UH47Z	Supplement Right Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UH4JZ	Supplement Right Hypogastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UH4KZ	Supplement Right Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UJ07Z	Supplement Left Hypogastric Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UJ0JZ	Supplement Left Hypogastric Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UJ0KZ	Supplement Left Hypogastric Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UJ37Z	Supplement Left Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UJ3JZ	Supplement Left Hypogastric Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UJ3KZ	Supplement Left Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UJ47Z	Supplement Left Hypogastric Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UJ4JZ	Supplement Left Hypogastric Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UJ4KZ	Supplement Left Hypogastric Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UM07Z	Supplement Right Femoral Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UM0JZ	Supplement Right Femoral Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UM0KZ	Supplement Right Femoral Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UM37Z	Supplement Right Femoral Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UM3JZ	Supplement Right Femoral Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06UM3KZ	Supplement Right Femoral Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UM47Z	Supplement Right Femoral Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UM4JZ	Supplement Right Femoral Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UM4KZ	Supplement Right Femoral Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UN07Z	Supplement Left Femoral Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UN0JZ	Supplement Left Femoral Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UN0KZ	Supplement Left Femoral Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UN37Z	Supplement Left Femoral Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UN3JZ	Supplement Left Femoral Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UN3KZ	Supplement Left Femoral Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UN47Z	Supplement Left Femoral Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UN4JZ	Supplement Left Femoral Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UN4KZ	Supplement Left Femoral Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UP07Z	Supplement Right Saphenous Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UP0JZ	Supplement Right Saphenous Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UP0KZ	Supplement Right Saphenous Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UP37Z	Supplement Right Saphenous Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UP3JZ	Supplement Right Saphenous Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UP3KZ	Supplement Right Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UP47Z	Supplement Right Saphenous Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UP4JZ	Supplement Right Saphenous Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UP4KZ	Supplement Right Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UQ07Z	Supplement Left Saphenous Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UQ0JZ	Supplement Left Saphenous Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06UQ0KZ	Supplement Left Saphenous Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UQ37Z	Supplement Left Saphenous Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UQ3JZ	Supplement Left Saphenous Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UQ3KZ	Supplement Left Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UQ47Z	Supplement Left Saphenous Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UQ4JZ	Supplement Left Saphenous Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UQ4KZ	Supplement Left Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UR07Z	Supplement Right Lesser Saphenous Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UR0JZ	Supplement Right Lesser Saphenous Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UR0KZ	Supplement Right Lesser Saphenous Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UR37Z	Supplement Right Lesser Saphenous Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UR3JZ	Supplement Right Lesser Saphenous Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UR3KZ	Supplement Right Lesser Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UR47Z	Supplement Right Lesser Saphenous Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UR4JZ	Supplement Right Lesser Saphenous Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UR4KZ	Supplement Right Lesser Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06US07Z	Supplement Left Lesser Saphenous Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06US0JZ	Supplement Left Lesser Saphenous Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06US0KZ	Supplement Left Lesser Saphenous Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06US37Z	Supplement Left Lesser Saphenous Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06US3JZ	Supplement Left Lesser Saphenous Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06US3KZ	Supplement Left Lesser Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06US47Z	Supplement Left Lesser Saphenous Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06US4JZ	Supplement Left Lesser Saphenous Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06US4KZ	Supplement Left Lesser Saphenous Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UT07Z	Supplement Right Foot Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UT0JZ	Supplement Right Foot Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UT0KZ	Supplement Right Foot Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UT37Z	Supplement Right Foot Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UT3JZ	Supplement Right Foot Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UT3KZ	Supplement Right Foot Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UT47Z	Supplement Right Foot Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UT4JZ	Supplement Right Foot Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UT4KZ	Supplement Right Foot Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UV07Z	Supplement Left Foot Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UV0JZ	Supplement Left Foot Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UV0KZ	Supplement Left Foot Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UV37Z	Supplement Left Foot Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UV3JZ	Supplement Left Foot Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UV3KZ	Supplement Left Foot Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UV47Z	Supplement Left Foot Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UV4JZ	Supplement Left Foot Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UV4KZ	Supplement Left Foot Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UY07Z	Supplement Lower Vein with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UY0JZ	Supplement Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
06UY0KZ	Supplement Lower Vein with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
06UY37Z	Supplement Lower Vein with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UY3JZ	Supplement Lower Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
06UY3KZ	Supplement Lower Vein with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06UY47Z	Supplement Lower Vein with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UY4JZ	Supplement Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06UY4KZ	Supplement Lower Vein with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V00CZ	Restriction of Inferior Vena Cava with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06V00DZ	Restriction of Inferior Vena Cava with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06V00ZZ	Restriction of Inferior Vena Cava, Open Approach	PX	ICD-10-PCS
06V03CZ	Restriction of Inferior Vena Cava with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V03DZ	Restriction of Inferior Vena Cava with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V03ZZ	Restriction of Inferior Vena Cava, Percutaneous Approach	PX	ICD-10-PCS
06V04CZ	Restriction of Inferior Vena Cava with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V04DZ	Restriction of Inferior Vena Cava with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V04ZZ	Restriction of Inferior Vena Cava, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V10CZ	Restriction of Splenic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06V10DZ	Restriction of Splenic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06V10ZZ	Restriction of Splenic Vein, Open Approach	PX	ICD-10-PCS
06V13CZ	Restriction of Splenic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V13DZ	Restriction of Splenic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V13ZZ	Restriction of Splenic Vein, Percutaneous Approach	PX	ICD-10-PCS
06V14CZ	Restriction of Splenic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V14DZ	Restriction of Splenic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V14ZZ	Restriction of Splenic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V20CZ	Restriction of Gastric Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06V20DZ	Restriction of Gastric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06V20ZZ	Restriction of Gastric Vein, Open Approach	PX	ICD-10-PCS
06V23CZ	Restriction of Gastric Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V23DZ	Restriction of Gastric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V23ZZ	Restriction of Gastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06V24CZ	Restriction of Gastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V24DZ	Restriction of Gastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V24ZZ	Restriction of Gastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V30CZ	Restriction of Esophageal Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06V30DZ	Restriction of Esophageal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06V30ZZ	Restriction of Esophageal Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06V33CZ	Restriction of Esophageal Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V33DZ	Restriction of Esophageal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V33ZZ	Restriction of Esophageal Vein, Percutaneous Approach	PX	ICD-10-PCS
06V34CZ	Restriction of Esophageal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V34DZ	Restriction of Esophageal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V34ZZ	Restriction of Esophageal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V40CZ	Restriction of Hepatic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06V40DZ	Restriction of Hepatic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06V40ZZ	Restriction of Hepatic Vein, Open Approach	PX	ICD-10-PCS
06V43CZ	Restriction of Hepatic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V43DZ	Restriction of Hepatic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V43ZZ	Restriction of Hepatic Vein, Percutaneous Approach	PX	ICD-10-PCS
06V44CZ	Restriction of Hepatic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V44DZ	Restriction of Hepatic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V44ZZ	Restriction of Hepatic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V50CZ	Restriction of Superior Mesenteric Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06V50DZ	Restriction of Superior Mesenteric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06V50ZZ	Restriction of Superior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06V53CZ	Restriction of Superior Mesenteric Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V53DZ	Restriction of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V53ZZ	Restriction of Superior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS
06V54CZ	Restriction of Superior Mesenteric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V54DZ	Restriction of Superior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V54ZZ	Restriction of Superior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V60CZ	Restriction of Inferior Mesenteric Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06V60DZ	Restriction of Inferior Mesenteric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06V60ZZ	Restriction of Inferior Mesenteric Vein, Open Approach	PX	ICD-10-PCS
06V63CZ	Restriction of Inferior Mesenteric Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V63DZ	Restriction of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V63ZZ	Restriction of Inferior Mesenteric Vein, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06V64CZ	Restriction of Inferior Mesenteric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V64DZ	Restriction of Inferior Mesenteric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V64ZZ	Restriction of Inferior Mesenteric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V70CZ	Restriction of Colic Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06V70DZ	Restriction of Colic Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06V70ZZ	Restriction of Colic Vein, Open Approach	PX	ICD-10-PCS
06V73CZ	Restriction of Colic Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V73DZ	Restriction of Colic Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V73ZZ	Restriction of Colic Vein, Percutaneous Approach	PX	ICD-10-PCS
06V74CZ	Restriction of Colic Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V74DZ	Restriction of Colic Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V74ZZ	Restriction of Colic Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V80CZ	Restriction of Portal Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06V80DZ	Restriction of Portal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06V80ZZ	Restriction of Portal Vein, Open Approach	PX	ICD-10-PCS
06V83CZ	Restriction of Portal Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V83DZ	Restriction of Portal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V83ZZ	Restriction of Portal Vein, Percutaneous Approach	PX	ICD-10-PCS
06V84CZ	Restriction of Portal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V84DZ	Restriction of Portal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V84ZZ	Restriction of Portal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V90CZ	Restriction of Right Renal Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06V90DZ	Restriction of Right Renal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06V90ZZ	Restriction of Right Renal Vein, Open Approach	PX	ICD-10-PCS
06V93CZ	Restriction of Right Renal Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V93DZ	Restriction of Right Renal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06V93ZZ	Restriction of Right Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06V94CZ	Restriction of Right Renal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V94DZ	Restriction of Right Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06V94ZZ	Restriction of Right Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VB0CZ	Restriction of Left Renal Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VB0DZ	Restriction of Left Renal Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VB0ZZ	Restriction of Left Renal Vein, Open Approach	PX	ICD-10-PCS
06VB3CZ	Restriction of Left Renal Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VB3DZ	Restriction of Left Renal Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06VB3ZZ	Restriction of Left Renal Vein, Percutaneous Approach	PX	ICD-10-PCS
06VB4CZ	Restriction of Left Renal Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VB4DZ	Restriction of Left Renal Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VB4ZZ	Restriction of Left Renal Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VC0CZ	Restriction of Right Common Iliac Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VC0DZ	Restriction of Right Common Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VC0ZZ	Restriction of Right Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06VC3CZ	Restriction of Right Common Iliac Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VC3DZ	Restriction of Right Common Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VC3ZZ	Restriction of Right Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06VC4CZ	Restriction of Right Common Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VC4DZ	Restriction of Right Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VC4ZZ	Restriction of Right Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VD0CZ	Restriction of Left Common Iliac Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VD0DZ	Restriction of Left Common Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VD0ZZ	Restriction of Left Common Iliac Vein, Open Approach	PX	ICD-10-PCS
06VD3CZ	Restriction of Left Common Iliac Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VD3DZ	Restriction of Left Common Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VD3ZZ	Restriction of Left Common Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06VD4CZ	Restriction of Left Common Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VD4DZ	Restriction of Left Common Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VD4ZZ	Restriction of Left Common Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VF0CZ	Restriction of Right External Iliac Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VF0DZ	Restriction of Right External Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VF0ZZ	Restriction of Right External Iliac Vein, Open Approach	PX	ICD-10-PCS
06VF3CZ	Restriction of Right External Iliac Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VF3DZ	Restriction of Right External Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VF3ZZ	Restriction of Right External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06VF4CZ	Restriction of Right External Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VF4DZ	Restriction of Right External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06VF4ZZ	Restriction of Right External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VG0CZ	Restriction of Left External Iliac Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VG0DZ	Restriction of Left External Iliac Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VG0ZZ	Restriction of Left External Iliac Vein, Open Approach	PX	ICD-10-PCS
06VG3CZ	Restriction of Left External Iliac Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VG3DZ	Restriction of Left External Iliac Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VG3ZZ	Restriction of Left External Iliac Vein, Percutaneous Approach	PX	ICD-10-PCS
06VG4CZ	Restriction of Left External Iliac Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VG4DZ	Restriction of Left External Iliac Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VG4ZZ	Restriction of Left External Iliac Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VH0CZ	Restriction of Right Hypogastric Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VH0DZ	Restriction of Right Hypogastric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VH0ZZ	Restriction of Right Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06VH3CZ	Restriction of Right Hypogastric Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VH3DZ	Restriction of Right Hypogastric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VH3ZZ	Restriction of Right Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06VH4CZ	Restriction of Right Hypogastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VH4DZ	Restriction of Right Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VH4ZZ	Restriction of Right Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VJ0CZ	Restriction of Left Hypogastric Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VJ0DZ	Restriction of Left Hypogastric Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VJ0ZZ	Restriction of Left Hypogastric Vein, Open Approach	PX	ICD-10-PCS
06VJ3CZ	Restriction of Left Hypogastric Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VJ3DZ	Restriction of Left Hypogastric Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VJ3ZZ	Restriction of Left Hypogastric Vein, Percutaneous Approach	PX	ICD-10-PCS
06VJ4CZ	Restriction of Left Hypogastric Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VJ4DZ	Restriction of Left Hypogastric Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VJ4ZZ	Restriction of Left Hypogastric Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VM0CZ	Restriction of Right Femoral Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VM0DZ	Restriction of Right Femoral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VM0ZZ	Restriction of Right Femoral Vein, Open Approach	PX	ICD-10-PCS
06VM3CZ	Restriction of Right Femoral Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06VM3DZ	Restriction of Right Femoral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VM3ZZ	Restriction of Right Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06VM4CZ	Restriction of Right Femoral Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VM4DZ	Restriction of Right Femoral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VM4ZZ	Restriction of Right Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VN0CZ	Restriction of Left Femoral Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VN0DZ	Restriction of Left Femoral Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VN0ZZ	Restriction of Left Femoral Vein, Open Approach	PX	ICD-10-PCS
06VN3CZ	Restriction of Left Femoral Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VN3DZ	Restriction of Left Femoral Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VN3ZZ	Restriction of Left Femoral Vein, Percutaneous Approach	PX	ICD-10-PCS
06VN4CZ	Restriction of Left Femoral Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VN4DZ	Restriction of Left Femoral Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VN4ZZ	Restriction of Left Femoral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VP0CZ	Restriction of Right Saphenous Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VP0DZ	Restriction of Right Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VP0ZZ	Restriction of Right Saphenous Vein, Open Approach	PX	ICD-10-PCS
06VP3CZ	Restriction of Right Saphenous Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VP3DZ	Restriction of Right Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VP3ZZ	Restriction of Right Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06VP4CZ	Restriction of Right Saphenous Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VP4DZ	Restriction of Right Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VP4ZZ	Restriction of Right Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VQ0CZ	Restriction of Left Saphenous Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VQ0DZ	Restriction of Left Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VQ0ZZ	Restriction of Left Saphenous Vein, Open Approach	PX	ICD-10-PCS
06VQ3CZ	Restriction of Left Saphenous Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VQ3DZ	Restriction of Left Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VQ3ZZ	Restriction of Left Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06VQ4CZ	Restriction of Left Saphenous Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06VQ4DZ	Restriction of Left Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VQ4ZZ	Restriction of Left Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VR0CZ	Restriction of Right Lesser Saphenous Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VR0DZ	Restriction of Right Lesser Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VR0ZZ	Restriction of Right Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06VR3CZ	Restriction of Right Lesser Saphenous Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VR3DZ	Restriction of Right Lesser Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VR3ZZ	Restriction of Right Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06VR4CZ	Restriction of Right Lesser Saphenous Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VR4DZ	Restriction of Right Lesser Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VR4ZZ	Restriction of Right Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VS0CZ	Restriction of Left Lesser Saphenous Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VS0DZ	Restriction of Left Lesser Saphenous Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VS0ZZ	Restriction of Left Lesser Saphenous Vein, Open Approach	PX	ICD-10-PCS
06VS3CZ	Restriction of Left Lesser Saphenous Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VS3DZ	Restriction of Left Lesser Saphenous Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VS3ZZ	Restriction of Left Lesser Saphenous Vein, Percutaneous Approach	PX	ICD-10-PCS
06VS4CZ	Restriction of Left Lesser Saphenous Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VS4DZ	Restriction of Left Lesser Saphenous Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VS4ZZ	Restriction of Left Lesser Saphenous Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VT0CZ	Restriction of Right Foot Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VT0DZ	Restriction of Right Foot Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VT0ZZ	Restriction of Right Foot Vein, Open Approach	PX	ICD-10-PCS
06VT3CZ	Restriction of Right Foot Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VT3DZ	Restriction of Right Foot Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VT3ZZ	Restriction of Right Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06VT4CZ	Restriction of Right Foot Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VT4DZ	Restriction of Right Foot Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VT4ZZ	Restriction of Right Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VV0CZ	Restriction of Left Foot Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06VV0DZ	Restriction of Left Foot Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VV0ZZ	Restriction of Left Foot Vein, Open Approach	PX	ICD-10-PCS
06VV3CZ	Restriction of Left Foot Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VV3DZ	Restriction of Left Foot Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VV3ZZ	Restriction of Left Foot Vein, Percutaneous Approach	PX	ICD-10-PCS
06VV4CZ	Restriction of Left Foot Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VV4DZ	Restriction of Left Foot Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VV4ZZ	Restriction of Left Foot Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VY0CZ	Restriction of Lower Vein with Extraluminal Device, Open Approach	PX	ICD-10-PCS
06VY0DZ	Restriction of Lower Vein with Intraluminal Device, Open Approach	PX	ICD-10-PCS
06VY0ZZ	Restriction of Lower Vein, Open Approach	PX	ICD-10-PCS
06VY3CZ	Restriction of Lower Vein with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VY3DZ	Restriction of Lower Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
06VY3ZZ	Restriction of Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06VY4CZ	Restriction of Lower Vein with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VY4DZ	Restriction of Lower Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06VY4ZZ	Restriction of Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06WY00Z	Revision of Drainage Device in Lower Vein, Open Approach	PX	ICD-10-PCS
06WY02Z	Revision of Monitoring Device in Lower Vein, Open Approach	PX	ICD-10-PCS
06WY03Z	Revision of Infusion Device in Lower Vein, Open Approach	PX	ICD-10-PCS
06WY07Z	Revision of Autologous Tissue Substitute in Lower Vein, Open Approach	PX	ICD-10-PCS
06WY0CZ	Revision of Extraluminal Device in Lower Vein, Open Approach	PX	ICD-10-PCS
06WY0DZ	Revision of Intraluminal Device in Lower Vein, Open Approach	PX	ICD-10-PCS
06WY0JZ	Revision of Synthetic Substitute in Lower Vein, Open Approach	PX	ICD-10-PCS
06WY0KZ	Revision of Nonautologous Tissue Substitute in Lower Vein, Open Approach	PX	ICD-10-PCS
06WY0YZ	Revision of Other Device in Lower Vein, Open Approach	PX	ICD-10-PCS
06WY37Z	Revision of Autologous Tissue Substitute in Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06WY3CZ	Revision of Extraluminal Device in Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06WY3DZ	Revision of Intraluminal Device in Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06WY3JZ	Revision of Synthetic Substitute in Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06WY3KZ	Revision of Nonautologous Tissue Substitute in Lower Vein, Percutaneous Approach	PX	ICD-10-PCS
06WY40Z	Revision of Drainage Device in Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06WY42Z	Revision of Monitoring Device in Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06WY43Z	Revision of Infusion Device in Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06WY47Z	Revision of Autologous Tissue Substitute in Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06WY4CZ	Revision of Extraluminal Device in Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
06WY4DZ	Revision of Intraluminal Device in Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06WY4JZ	Revision of Synthetic Substitute in Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06WY4KZ	Revision of Nonautologous Tissue Substitute in Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
06WY4YZ	Revision of Other Device in Lower Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07100Z3	Bypass Head Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
07100Z4	Bypass Head Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
07100Z7	Bypass Head Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
07100ZK	Bypass Head Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
07100ZL	Bypass Head Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07104Z3	Bypass Head Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07104Z4	Bypass Head Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07104Z7	Bypass Head Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07104ZK	Bypass Head Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07104ZL	Bypass Head Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07110Z3	Bypass Right Neck Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
07110Z4	Bypass Right Neck Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
07110Z7	Bypass Right Neck Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
07110ZK	Bypass Right Neck Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
07110ZL	Bypass Right Neck Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07114Z3	Bypass Right Neck Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07114Z4	Bypass Right Neck Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07114Z7	Bypass Right Neck Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07114ZK	Bypass Right Neck Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07114ZL	Bypass Right Neck Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07120Z3	Bypass Left Neck Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
07120Z4	Bypass Left Neck Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
07120Z7	Bypass Left Neck Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
07120ZK	Bypass Left Neck Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
07120ZL	Bypass Left Neck Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07124Z3	Bypass Left Neck Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07124Z4	Bypass Left Neck Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07124Z7	Bypass Left Neck Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07124ZK	Bypass Left Neck Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07124ZL	Bypass Left Neck Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07130Z3	Bypass Right Upper Extremity Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07130Z4	Bypass Right Upper Extremity Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
07130Z7	Bypass Right Upper Extremity Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
07130ZK	Bypass Right Upper Extremity Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
07130ZL	Bypass Right Upper Extremity Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07134Z3	Bypass Right Upper Extremity Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07134Z4	Bypass Right Upper Extremity Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07134Z7	Bypass Right Upper Extremity Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07134ZK	Bypass Right Upper Extremity Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07134ZL	Bypass Right Upper Extremity Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07140Z3	Bypass Left Upper Extremity Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
07140Z4	Bypass Left Upper Extremity Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
07140Z7	Bypass Left Upper Extremity Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
07140ZK	Bypass Left Upper Extremity Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
07140ZL	Bypass Left Upper Extremity Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07144Z3	Bypass Left Upper Extremity Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07144Z4	Bypass Left Upper Extremity Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07144Z7	Bypass Left Upper Extremity Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07144ZK	Bypass Left Upper Extremity Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07144ZL	Bypass Left Upper Extremity Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07150Z3	Bypass Right Axillary Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
07150Z4	Bypass Right Axillary Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
07150Z7	Bypass Right Axillary Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
07150ZK	Bypass Right Axillary Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
07150ZL	Bypass Right Axillary Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07154Z3	Bypass Right Axillary Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07154Z4	Bypass Right Axillary Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07154Z7	Bypass Right Axillary Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07154ZK	Bypass Right Axillary Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07154ZL	Bypass Right Axillary Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07160Z3	Bypass Left Axillary Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07160Z4	Bypass Left Axillary Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
07160Z7	Bypass Left Axillary Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
07160ZK	Bypass Left Axillary Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
07160ZL	Bypass Left Axillary Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07164Z3	Bypass Left Axillary Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07164Z4	Bypass Left Axillary Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07164Z7	Bypass Left Axillary Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07164ZK	Bypass Left Axillary Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07164ZL	Bypass Left Axillary Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07170Z3	Bypass Thorax Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
07170Z4	Bypass Thorax Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
07170Z7	Bypass Thorax Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
07170ZK	Bypass Thorax Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
07170ZL	Bypass Thorax Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07174Z3	Bypass Thorax Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07174Z4	Bypass Thorax Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07174Z7	Bypass Thorax Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07174ZK	Bypass Thorax Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07174ZL	Bypass Thorax Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07180Z3	Bypass Right Internal Mammary Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
07180Z4	Bypass Right Internal Mammary Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
07180Z7	Bypass Right Internal Mammary Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
07180ZK	Bypass Right Internal Mammary Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
07180ZL	Bypass Right Internal Mammary Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07184Z3	Bypass Right Internal Mammary Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07184Z4	Bypass Right Internal Mammary Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07184Z7	Bypass Right Internal Mammary Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07184ZK	Bypass Right Internal Mammary Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07184ZL	Bypass Right Internal Mammary Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07190Z3	Bypass Left Internal Mammary Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
07190Z4	Bypass Left Internal Mammary Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
07190Z7	Bypass Left Internal Mammary Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
07190ZK	Bypass Left Internal Mammary Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
07190ZL	Bypass Left Internal Mammary Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07194Z3	Bypass Left Internal Mammary Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07194Z4	Bypass Left Internal Mammary Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07194Z7	Bypass Left Internal Mammary Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07194ZK	Bypass Left Internal Mammary Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07194ZL	Bypass Left Internal Mammary Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071B0Z3	Bypass Mesenteric Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
071B0Z4	Bypass Mesenteric Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
071B0Z7	Bypass Mesenteric Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
071B0ZK	Bypass Mesenteric Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
071B0ZL	Bypass Mesenteric Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
071B4Z3	Bypass Mesenteric Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071B4Z4	Bypass Mesenteric Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071B4Z7	Bypass Mesenteric Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071B4ZK	Bypass Mesenteric Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071B4ZL	Bypass Mesenteric Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071C0Z3	Bypass Pelvis Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
071C0Z4	Bypass Pelvis Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
071C0Z7	Bypass Pelvis Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
071C0ZK	Bypass Pelvis Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
071C0ZL	Bypass Pelvis Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
071C4Z3	Bypass Pelvis Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071C4Z4	Bypass Pelvis Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071C4Z7	Bypass Pelvis Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071C4ZK	Bypass Pelvis Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071C4ZL	Bypass Pelvis Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071D0Z3	Bypass Aortic Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
071D0Z4	Bypass Aortic Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
071D0Z7	Bypass Aortic Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
071D0ZK	Bypass Aortic Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
071D0ZL	Bypass Aortic Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
071D4Z3	Bypass Aortic Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071D4Z4	Bypass Aortic Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071D4Z7	Bypass Aortic Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071D4ZK	Bypass Aortic Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071D4ZL	Bypass Aortic Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071F0Z3	Bypass Right Lower Extremity Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
071F0Z4	Bypass Right Lower Extremity Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
071F0Z7	Bypass Right Lower Extremity Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
071F0ZK	Bypass Right Lower Extremity Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
071F0ZL	Bypass Right Lower Extremity Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
071F4Z3	Bypass Right Lower Extremity Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071F4Z4	Bypass Right Lower Extremity Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071F4Z7	Bypass Right Lower Extremity Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071F4ZK	Bypass Right Lower Extremity Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071F4ZL	Bypass Right Lower Extremity Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071G0Z3	Bypass Left Lower Extremity Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
071G0Z4	Bypass Left Lower Extremity Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
071G0Z7	Bypass Left Lower Extremity Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
071G0ZK	Bypass Left Lower Extremity Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
071G0ZL	Bypass Left Lower Extremity Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
071G4Z3	Bypass Left Lower Extremity Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071G4Z4	Bypass Left Lower Extremity Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071G4Z7	Bypass Left Lower Extremity Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071G4ZK	Bypass Left Lower Extremity Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071G4ZL	Bypass Left Lower Extremity Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071H0Z3	Bypass Right Inguinal Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS
071H0Z4	Bypass Right Inguinal Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
071H0Z7	Bypass Right Inguinal Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
071H0ZK	Bypass Right Inguinal Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
071H0ZL	Bypass Right Inguinal Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
071H4Z3	Bypass Right Inguinal Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071H4Z4	Bypass Right Inguinal Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071H4Z7	Bypass Right Inguinal Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071H4ZK	Bypass Right Inguinal Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071H4ZL	Bypass Right Inguinal Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071J0Z3	Bypass Left Inguinal Lymphatic to Peripheral Vein, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
071J0Z4	Bypass Left Inguinal Lymphatic to Central Vein, Open Approach	PX	ICD-10-PCS
071J0Z7	Bypass Left Inguinal Lymphatic to Lymphatic, Open Approach	PX	ICD-10-PCS
071J0ZK	Bypass Left Inguinal Lymphatic to Thoracic Duct, Open Approach	PX	ICD-10-PCS
071J0ZL	Bypass Left Inguinal Lymphatic to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
071J4Z3	Bypass Left Inguinal Lymphatic to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071J4Z4	Bypass Left Inguinal Lymphatic to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071J4Z7	Bypass Left Inguinal Lymphatic to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071J4ZK	Bypass Left Inguinal Lymphatic to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071J4ZL	Bypass Left Inguinal Lymphatic to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071K0Z3	Bypass Thoracic Duct to Peripheral Vein, Open Approach	PX	ICD-10-PCS
071K0Z4	Bypass Thoracic Duct to Central Vein, Open Approach	PX	ICD-10-PCS
071K0Z7	Bypass Thoracic Duct to Lymphatic, Open Approach	PX	ICD-10-PCS
071K0ZK	Bypass Thoracic Duct to Thoracic Duct, Open Approach	PX	ICD-10-PCS
071K0ZL	Bypass Thoracic Duct to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
071K4Z3	Bypass Thoracic Duct to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071K4Z4	Bypass Thoracic Duct to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071K4Z7	Bypass Thoracic Duct to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071K4ZK	Bypass Thoracic Duct to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071K4ZL	Bypass Thoracic Duct to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071L0Z3	Bypass Cisterna Chyli to Peripheral Vein, Open Approach	PX	ICD-10-PCS
071L0Z4	Bypass Cisterna Chyli to Central Vein, Open Approach	PX	ICD-10-PCS
071L0Z7	Bypass Cisterna Chyli to Lymphatic, Open Approach	PX	ICD-10-PCS
071L0ZK	Bypass Cisterna Chyli to Thoracic Duct, Open Approach	PX	ICD-10-PCS
071L0ZL	Bypass Cisterna Chyli to Cisterna Chyli, Open Approach	PX	ICD-10-PCS
071L4Z3	Bypass Cisterna Chyli to Peripheral Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071L4Z4	Bypass Cisterna Chyli to Central Vein, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071L4Z7	Bypass Cisterna Chyli to Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071L4ZK	Bypass Cisterna Chyli to Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
071L4ZL	Bypass Cisterna Chyli to Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07500ZZ	Destruction of Head Lymphatic, Open Approach	PX	ICD-10-PCS
07503ZZ	Destruction of Head Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07504ZZ	Destruction of Head Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07510ZZ	Destruction of Right Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07513ZZ	Destruction of Right Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07514ZZ	Destruction of Right Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07520ZZ	Destruction of Left Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07523ZZ	Destruction of Left Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07524ZZ	Destruction of Left Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07530ZZ	Destruction of Right Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07533ZZ	Destruction of Right Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07534ZZ	Destruction of Right Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07540ZZ	Destruction of Left Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07543ZZ	Destruction of Left Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07544ZZ	Destruction of Left Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07550ZZ	Destruction of Right Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07553ZZ	Destruction of Right Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07554ZZ	Destruction of Right Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07560ZZ	Destruction of Left Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07563ZZ	Destruction of Left Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07564ZZ	Destruction of Left Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07570ZZ	Destruction of Thorax Lymphatic, Open Approach	PX	ICD-10-PCS
07573ZZ	Destruction of Thorax Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07574ZZ	Destruction of Thorax Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07580ZZ	Destruction of Right Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07583ZZ	Destruction of Right Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07584ZZ	Destruction of Right Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07590ZZ	Destruction of Left Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07593ZZ	Destruction of Left Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07594ZZ	Destruction of Left Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075B0ZZ	Destruction of Mesenteric Lymphatic, Open Approach	PX	ICD-10-PCS
075B3ZZ	Destruction of Mesenteric Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
075B4ZZ	Destruction of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075C0ZZ	Destruction of Pelvis Lymphatic, Open Approach	PX	ICD-10-PCS
075C3ZZ	Destruction of Pelvis Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
075C4ZZ	Destruction of Pelvis Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075D0ZZ	Destruction of Aortic Lymphatic, Open Approach	PX	ICD-10-PCS
075D3ZZ	Destruction of Aortic Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
075D4ZZ	Destruction of Aortic Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075F0ZZ	Destruction of Right Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
075F3ZZ	Destruction of Right Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
075F4ZZ	Destruction of Right Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075G0ZZ	Destruction of Left Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
075G3ZZ	Destruction of Left Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
075G4ZZ	Destruction of Left Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075H0ZZ	Destruction of Right Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
075H3ZZ	Destruction of Right Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
075H4ZZ	Destruction of Right Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075J0ZZ	Destruction of Left Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
075J3ZZ	Destruction of Left Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
075J4ZZ	Destruction of Left Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075K0ZZ	Destruction of Thoracic Duct, Open Approach	PX	ICD-10-PCS
075K3ZZ	Destruction of Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
075K4ZZ	Destruction of Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075L0ZZ	Destruction of Cisterna Chyli, Open Approach	PX	ICD-10-PCS
075L3ZZ	Destruction of Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
075L4ZZ	Destruction of Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075M0ZZ	Destruction of Thymus, Open Approach	PX	ICD-10-PCS
075M3ZZ	Destruction of Thymus, Percutaneous Approach	PX	ICD-10-PCS
075M4ZZ	Destruction of Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
075P0ZZ	Destruction of Spleen, Open Approach	PX	ICD-10-PCS
075P3ZZ	Destruction of Spleen, Percutaneous Approach	PX	ICD-10-PCS
075P4ZZ	Destruction of Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079000Z	Drainage of Head Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
07900ZZ	Drainage of Head Lymphatic, Open Approach	PX	ICD-10-PCS
079040Z	Drainage of Head Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07904ZZ	Drainage of Head Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079100Z	Drainage of Right Neck Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
07910ZZ	Drainage of Right Neck Lymphatic, Open Approach	PX	ICD-10-PCS
079140Z	Drainage of Right Neck Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07914ZZ	Drainage of Right Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079200Z	Drainage of Left Neck Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
07920ZZ	Drainage of Left Neck Lymphatic, Open Approach	PX	ICD-10-PCS
079240Z	Drainage of Left Neck Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07924ZZ	Drainage of Left Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079300Z	Drainage of Right Upper Extremity Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
07930ZZ	Drainage of Right Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
079340Z	Drainage of Right Upper Extremity Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07934ZZ	Drainage of Right Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079400Z	Drainage of Left Upper Extremity Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
07940ZZ	Drainage of Left Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
079440Z	Drainage of Left Upper Extremity Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07944ZZ	Drainage of Left Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079500Z	Drainage of Right Axillary Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
07950ZZ	Drainage of Right Axillary Lymphatic, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
079540Z	Drainage of Right Axillary Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07954ZZ	Drainage of Right Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079600Z	Drainage of Left Axillary Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
07960ZZ	Drainage of Left Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
079640Z	Drainage of Left Axillary Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07964ZZ	Drainage of Left Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079700Z	Drainage of Thorax Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
07970ZZ	Drainage of Thorax Lymphatic, Open Approach	PX	ICD-10-PCS
079740Z	Drainage of Thorax Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07974ZZ	Drainage of Thorax Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079800Z	Drainage of Right Internal Mammary Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
07980ZZ	Drainage of Right Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
079840Z	Drainage of Right Internal Mammary Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07984ZZ	Drainage of Right Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079900Z	Drainage of Left Internal Mammary Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
07990ZZ	Drainage of Left Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
079940Z	Drainage of Left Internal Mammary Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07994ZZ	Drainage of Left Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079B00Z	Drainage of Mesenteric Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
079B0ZZ	Drainage of Mesenteric Lymphatic, Open Approach	PX	ICD-10-PCS
079B40Z	Drainage of Mesenteric Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079B4ZZ	Drainage of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079C00Z	Drainage of Pelvis Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
079C0ZZ	Drainage of Pelvis Lymphatic, Open Approach	PX	ICD-10-PCS
079C40Z	Drainage of Pelvis Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079C4ZZ	Drainage of Pelvis Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079D00Z	Drainage of Aortic Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
079D0ZZ	Drainage of Aortic Lymphatic, Open Approach	PX	ICD-10-PCS
079D40Z	Drainage of Aortic Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079D4ZZ	Drainage of Aortic Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079F00Z	Drainage of Right Lower Extremity Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
079F0ZZ	Drainage of Right Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
079F40Z	Drainage of Right Lower Extremity Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079F4ZZ	Drainage of Right Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079G00Z	Drainage of Left Lower Extremity Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
079G0ZZ	Drainage of Left Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
079G40Z	Drainage of Left Lower Extremity Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079G4ZZ	Drainage of Left Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079H00Z	Drainage of Right Inguinal Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
079H0ZZ	Drainage of Right Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
079H40Z	Drainage of Right Inguinal Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079H4ZZ	Drainage of Right Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079J00Z	Drainage of Left Inguinal Lymphatic with Drainage Device, Open Approach	PX	ICD-10-PCS
079J0ZZ	Drainage of Left Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
079J40Z	Drainage of Left Inguinal Lymphatic with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079J4ZZ	Drainage of Left Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079K00Z	Drainage of Thoracic Duct with Drainage Device, Open Approach	PX	ICD-10-PCS
079K0ZZ	Drainage of Thoracic Duct, Open Approach	PX	ICD-10-PCS
079K40Z	Drainage of Thoracic Duct with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079K4ZZ	Drainage of Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079L00Z	Drainage of Cisterna Chyli with Drainage Device, Open Approach	PX	ICD-10-PCS
079L0ZZ	Drainage of Cisterna Chyli, Open Approach	PX	ICD-10-PCS
079L40Z	Drainage of Cisterna Chyli with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079L4ZZ	Drainage of Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079M00Z	Drainage of Thymus with Drainage Device, Open Approach	PX	ICD-10-PCS
079M0ZZ	Drainage of Thymus, Open Approach	PX	ICD-10-PCS
079M40Z	Drainage of Thymus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079M4ZZ	Drainage of Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079P00Z	Drainage of Spleen with Drainage Device, Open Approach	PX	ICD-10-PCS
079P0ZZ	Drainage of Spleen, Open Approach	PX	ICD-10-PCS
079P40Z	Drainage of Spleen with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079P4ZZ	Drainage of Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079T00Z	Drainage of Bone Marrow with Drainage Device, Open Approach	PX	ICD-10-PCS
079T0ZZ	Drainage of Bone Marrow, Open Approach	PX	ICD-10-PCS
079T40Z	Drainage of Bone Marrow with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
079T4ZZ	Drainage of Bone Marrow, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07B00ZZ	Excision of Head Lymphatic, Open Approach	PX	ICD-10-PCS
07B03ZZ	Excision of Head Lymphatic, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07B04ZZ	Excision of Head Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07B10ZZ	Excision of Right Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07B13ZZ	Excision of Right Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07B14ZZ	Excision of Right Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07B20ZZ	Excision of Left Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07B23ZZ	Excision of Left Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07B24ZZ	Excision of Left Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07B30ZZ	Excision of Right Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07B33ZZ	Excision of Right Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07B34ZZ	Excision of Right Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07B40ZZ	Excision of Left Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07B43ZZ	Excision of Left Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07B44ZZ	Excision of Left Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07B50ZZ	Excision of Right Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07B53ZZ	Excision of Right Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07B54ZZ	Excision of Right Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07B60ZZ	Excision of Left Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07B63ZZ	Excision of Left Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07B64ZZ	Excision of Left Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07B70ZZ	Excision of Thorax Lymphatic, Open Approach	PX	ICD-10-PCS
07B73ZZ	Excision of Thorax Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07B74ZZ	Excision of Thorax Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07B80ZZ	Excision of Right Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07B83ZZ	Excision of Right Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07B84ZZ	Excision of Right Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07B90ZZ	Excision of Left Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07B93ZZ	Excision of Left Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07B94ZZ	Excision of Left Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BB0ZZ	Excision of Mesenteric Lymphatic, Open Approach	PX	ICD-10-PCS
07BB3ZZ	Excision of Mesenteric Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07BB4ZZ	Excision of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BC0ZZ	Excision of Pelvis Lymphatic, Open Approach	PX	ICD-10-PCS
07BC3ZZ	Excision of Pelvis Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07BC4ZZ	Excision of Pelvis Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BD0ZZ	Excision of Aortic Lymphatic, Open Approach	PX	ICD-10-PCS
07BD3ZZ	Excision of Aortic Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07BD4ZZ	Excision of Aortic Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BF0ZZ	Excision of Right Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07BF3ZZ	Excision of Right Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07BF4ZZ	Excision of Right Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BG0ZZ	Excision of Left Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07BG3ZZ	Excision of Left Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07BG4ZZ	Excision of Left Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BH0ZZ	Excision of Right Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07BH3ZZ	Excision of Right Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07BH4ZZ	Excision of Right Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BJ0ZZ	Excision of Left Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07BJ3ZZ	Excision of Left Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07BJ4ZZ	Excision of Left Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BK0ZZ	Excision of Thoracic Duct, Open Approach	PX	ICD-10-PCS
07BK3ZZ	Excision of Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07BK4ZZ	Excision of Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BL0ZZ	Excision of Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07BL3ZZ	Excision of Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07BL4ZZ	Excision of Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BM0ZZ	Excision of Thymus, Open Approach	PX	ICD-10-PCS
07BM3ZZ	Excision of Thymus, Percutaneous Approach	PX	ICD-10-PCS
07BM4ZZ	Excision of Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07BP0ZZ	Excision of Spleen, Open Approach	PX	ICD-10-PCS
07BP3ZZ	Excision of Spleen, Percutaneous Approach	PX	ICD-10-PCS
07BP4ZZ	Excision of Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07C00ZZ	Extirpation of Matter from Head Lymphatic, Open Approach	PX	ICD-10-PCS
07C03ZZ	Extirpation of Matter from Head Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07C04ZZ	Extirpation of Matter from Head Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07C10ZZ	Extirpation of Matter from Right Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07C13ZZ	Extirpation of Matter from Right Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07C14ZZ	Extirpation of Matter from Right Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07C20ZZ	Extirpation of Matter from Left Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07C23ZZ	Extirpation of Matter from Left Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07C24ZZ	Extirpation of Matter from Left Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07C30ZZ	Extirpation of Matter from Right Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07C33ZZ	Extirpation of Matter from Right Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07C34ZZ	Extirpation of Matter from Right Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07C40ZZ	Extirpation of Matter from Left Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07C43ZZ	Extirpation of Matter from Left Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07C44ZZ	Extirpation of Matter from Left Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07C50ZZ	Extirpation of Matter from Right Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07C53ZZ	Extirpation of Matter from Right Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07C54ZZ	Extirpation of Matter from Right Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07C60ZZ	Extirpation of Matter from Left Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07C63ZZ	Extirpation of Matter from Left Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07C64ZZ	Extirpation of Matter from Left Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07C70ZZ	Extirpation of Matter from Thorax Lymphatic, Open Approach	PX	ICD-10-PCS
07C73ZZ	Extirpation of Matter from Thorax Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07C74ZZ	Extirpation of Matter from Thorax Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07C80ZZ	Extirpation of Matter from Right Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07C83ZZ	Extirpation of Matter from Right Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07C84ZZ	Extirpation of Matter from Right Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07C90ZZ	Extirpation of Matter from Left Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07C93ZZ	Extirpation of Matter from Left Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07C94ZZ	Extirpation of Matter from Left Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CB0ZZ	Extirpation of Matter from Mesenteric Lymphatic, Open Approach	PX	ICD-10-PCS
07CB3ZZ	Extirpation of Matter from Mesenteric Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07CB4ZZ	Extirpation of Matter from Mesenteric Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CC0ZZ	Extirpation of Matter from Pelvis Lymphatic, Open Approach	PX	ICD-10-PCS
07CC3ZZ	Extirpation of Matter from Pelvis Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07CC4ZZ	Extirpation of Matter from Pelvis Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CD0ZZ	Extirpation of Matter from Aortic Lymphatic, Open Approach	PX	ICD-10-PCS
07CD3ZZ	Extirpation of Matter from Aortic Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07CD4ZZ	Extirpation of Matter from Aortic Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CF0ZZ	Extirpation of Matter from Right Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07CF3ZZ	Extirpation of Matter from Right Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07CF4ZZ	Extirpation of Matter from Right Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CG0ZZ	Extirpation of Matter from Left Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07CG3ZZ	Extirpation of Matter from Left Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07CG4ZZ	Extirpation of Matter from Left Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CH0ZZ	Extirpation of Matter from Right Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07CH3ZZ	Extirpation of Matter from Right Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07CH4ZZ	Extirpation of Matter from Right Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CJ0ZZ	Extirpation of Matter from Left Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07CJ3ZZ	Extirpation of Matter from Left Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07CJ4ZZ	Extirpation of Matter from Left Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CK0ZZ	Extirpation of Matter from Thoracic Duct, Open Approach	PX	ICD-10-PCS
07CK3ZZ	Extirpation of Matter from Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07CK4ZZ	Extirpation of Matter from Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CL0ZZ	Extirpation of Matter from Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07CL3ZZ	Extirpation of Matter from Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07CL4ZZ	Extirpation of Matter from Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CM0ZZ	Extirpation of Matter from Thymus, Open Approach	PX	ICD-10-PCS
07CM3ZZ	Extirpation of Matter from Thymus, Percutaneous Approach	PX	ICD-10-PCS
07CM4ZZ	Extirpation of Matter from Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07CP0ZZ	Extirpation of Matter from Spleen, Open Approach	PX	ICD-10-PCS
07CP4ZZ	Extirpation of Matter from Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HK01Z	Insertion of Radioactive Element into Thoracic Duct, Open Approach	PX	ICD-10-PCS
07HK03Z	Insertion of Infusion Device into Thoracic Duct, Open Approach	PX	ICD-10-PCS
07HK0YZ	Insertion of Other Device into Thoracic Duct, Open Approach	PX	ICD-10-PCS
07HK41Z	Insertion of Radioactive Element into Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HK43Z	Insertion of Infusion Device into Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HK4YZ	Insertion of Other Device into Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HL01Z	Insertion of Radioactive Element into Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07HL03Z	Insertion of Infusion Device into Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07HL0YZ	Insertion of Other Device into Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07HL41Z	Insertion of Radioactive Element into Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HL43Z	Insertion of Infusion Device into Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HL4YZ	Insertion of Other Device into Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HM01Z	Insertion of Radioactive Element into Thymus, Open Approach	PX	ICD-10-PCS
07HM03Z	Insertion of Infusion Device into Thymus, Open Approach	PX	ICD-10-PCS
07HM0YZ	Insertion of Other Device into Thymus, Open Approach	PX	ICD-10-PCS
07HM41Z	Insertion of Radioactive Element into Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HM43Z	Insertion of Infusion Device into Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HM4YZ	Insertion of Other Device into Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HN01Z	Insertion of Radioactive Element into Lymphatic, Open Approach	PX	ICD-10-PCS
07HN03Z	Insertion of Infusion Device into Lymphatic, Open Approach	PX	ICD-10-PCS
07HN0YZ	Insertion of Other Device into Lymphatic, Open Approach	PX	ICD-10-PCS
07HN41Z	Insertion of Radioactive Element into Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HN43Z	Insertion of Infusion Device into Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07HN4YZ	Insertion of Other Device into Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HP01Z	Insertion of Radioactive Element into Spleen, Open Approach	PX	ICD-10-PCS
07HP03Z	Insertion of Infusion Device into Spleen, Open Approach	PX	ICD-10-PCS
07HP0YZ	Insertion of Other Device into Spleen, Open Approach	PX	ICD-10-PCS
07HP41Z	Insertion of Radioactive Element into Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HP43Z	Insertion of Infusion Device into Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HP4YZ	Insertion of Other Device into Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HT01Z	Insertion of Radioactive Element into Bone Marrow, Open Approach	PX	ICD-10-PCS
07HT03Z	Insertion of Infusion Device into Bone Marrow, Open Approach	PX	ICD-10-PCS
07HT0YZ	Insertion of Other Device into Bone Marrow, Open Approach	PX	ICD-10-PCS
07HT41Z	Insertion of Radioactive Element into Bone Marrow, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HT43Z	Insertion of Infusion Device into Bone Marrow, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07HT4YZ	Insertion of Other Device into Bone Marrow, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L00CZ	Occlusion of Head Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07L00DZ	Occlusion of Head Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07L00ZZ	Occlusion of Head Lymphatic, Open Approach	PX	ICD-10-PCS
07L03CZ	Occlusion of Head Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L03DZ	Occlusion of Head Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L03ZZ	Occlusion of Head Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07L04CZ	Occlusion of Head Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L04DZ	Occlusion of Head Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L04ZZ	Occlusion of Head Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L10CZ	Occlusion of Right Neck Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07L10DZ	Occlusion of Right Neck Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07L10ZZ	Occlusion of Right Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07L13CZ	Occlusion of Right Neck Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L13DZ	Occlusion of Right Neck Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L13ZZ	Occlusion of Right Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07L14CZ	Occlusion of Right Neck Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L14DZ	Occlusion of Right Neck Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L14ZZ	Occlusion of Right Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L20CZ	Occlusion of Left Neck Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07L20DZ	Occlusion of Left Neck Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07L20ZZ	Occlusion of Left Neck Lymphatic, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07L23CZ	Occlusion of Left Neck Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L23DZ	Occlusion of Left Neck Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L23ZZ	Occlusion of Left Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07L24CZ	Occlusion of Left Neck Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L24DZ	Occlusion of Left Neck Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L24ZZ	Occlusion of Left Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L30CZ	Occlusion of Right Upper Extremity Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07L30DZ	Occlusion of Right Upper Extremity Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07L30ZZ	Occlusion of Right Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07L33CZ	Occlusion of Right Upper Extremity Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L33DZ	Occlusion of Right Upper Extremity Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L33ZZ	Occlusion of Right Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07L34CZ	Occlusion of Right Upper Extremity Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L34DZ	Occlusion of Right Upper Extremity Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L34ZZ	Occlusion of Right Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L40CZ	Occlusion of Left Upper Extremity Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07L40DZ	Occlusion of Left Upper Extremity Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07L40ZZ	Occlusion of Left Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07L43CZ	Occlusion of Left Upper Extremity Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L43DZ	Occlusion of Left Upper Extremity Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L43ZZ	Occlusion of Left Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07L44CZ	Occlusion of Left Upper Extremity Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L44DZ	Occlusion of Left Upper Extremity Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L44ZZ	Occlusion of Left Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L50CZ	Occlusion of Right Axillary Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07L50DZ	Occlusion of Right Axillary Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07L50ZZ	Occlusion of Right Axillary Lymphatic, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07L53CZ	Occlusion of Right Axillary Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L53DZ	Occlusion of Right Axillary Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L53ZZ	Occlusion of Right Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07L54CZ	Occlusion of Right Axillary Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L54DZ	Occlusion of Right Axillary Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L54ZZ	Occlusion of Right Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L60CZ	Occlusion of Left Axillary Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07L60DZ	Occlusion of Left Axillary Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07L60ZZ	Occlusion of Left Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07L63CZ	Occlusion of Left Axillary Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L63DZ	Occlusion of Left Axillary Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L63ZZ	Occlusion of Left Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07L64CZ	Occlusion of Left Axillary Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L64DZ	Occlusion of Left Axillary Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L64ZZ	Occlusion of Left Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L70CZ	Occlusion of Thorax Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07L70DZ	Occlusion of Thorax Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07L70ZZ	Occlusion of Thorax Lymphatic, Open Approach	PX	ICD-10-PCS
07L73CZ	Occlusion of Thorax Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L73DZ	Occlusion of Thorax Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L73ZZ	Occlusion of Thorax Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07L74CZ	Occlusion of Thorax Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L74DZ	Occlusion of Thorax Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L74ZZ	Occlusion of Thorax Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L80CZ	Occlusion of Right Internal Mammary Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07L80DZ	Occlusion of Right Internal Mammary Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07L80ZZ	Occlusion of Right Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07L83CZ	Occlusion of Right Internal Mammary Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L83DZ	Occlusion of Right Internal Mammary Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07L83ZZ	Occlusion of Right Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07L84CZ	Occlusion of Right Internal Mammary Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L84DZ	Occlusion of Right Internal Mammary Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L84ZZ	Occlusion of Right Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L90CZ	Occlusion of Left Internal Mammary Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07L90DZ	Occlusion of Left Internal Mammary Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07L90ZZ	Occlusion of Left Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07L93CZ	Occlusion of Left Internal Mammary Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L93DZ	Occlusion of Left Internal Mammary Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07L93ZZ	Occlusion of Left Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07L94CZ	Occlusion of Left Internal Mammary Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L94DZ	Occlusion of Left Internal Mammary Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07L94ZZ	Occlusion of Left Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LB0CZ	Occlusion of Mesenteric Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07LB0DZ	Occlusion of Mesenteric Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07LB0ZZ	Occlusion of Mesenteric Lymphatic, Open Approach	PX	ICD-10-PCS
07LB3CZ	Occlusion of Mesenteric Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LB3DZ	Occlusion of Mesenteric Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LB3ZZ	Occlusion of Mesenteric Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07LB4CZ	Occlusion of Mesenteric Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LB4DZ	Occlusion of Mesenteric Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LB4ZZ	Occlusion of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LC0CZ	Occlusion of Pelvis Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07LC0DZ	Occlusion of Pelvis Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07LC0ZZ	Occlusion of Pelvis Lymphatic, Open Approach	PX	ICD-10-PCS
07LC3CZ	Occlusion of Pelvis Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LC3DZ	Occlusion of Pelvis Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LC3ZZ	Occlusion of Pelvis Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07LC4CZ	Occlusion of Pelvis Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07LC4DZ	Occlusion of Pelvis Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LC4ZZ	Occlusion of Pelvis Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LD0CZ	Occlusion of Aortic Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07LD0DZ	Occlusion of Aortic Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07LD0ZZ	Occlusion of Aortic Lymphatic, Open Approach	PX	ICD-10-PCS
07LD3CZ	Occlusion of Aortic Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LD3DZ	Occlusion of Aortic Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LD3ZZ	Occlusion of Aortic Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07LD4CZ	Occlusion of Aortic Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LD4DZ	Occlusion of Aortic Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LD4ZZ	Occlusion of Aortic Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LF0CZ	Occlusion of Right Lower Extremity Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07LF0DZ	Occlusion of Right Lower Extremity Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07LF0ZZ	Occlusion of Right Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07LF3CZ	Occlusion of Right Lower Extremity Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LF3DZ	Occlusion of Right Lower Extremity Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LF3ZZ	Occlusion of Right Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07LF4CZ	Occlusion of Right Lower Extremity Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LF4DZ	Occlusion of Right Lower Extremity Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LF4ZZ	Occlusion of Right Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LG0CZ	Occlusion of Left Lower Extremity Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07LG0DZ	Occlusion of Left Lower Extremity Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07LG0ZZ	Occlusion of Left Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07LG3CZ	Occlusion of Left Lower Extremity Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LG3DZ	Occlusion of Left Lower Extremity Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LG3ZZ	Occlusion of Left Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07LG4CZ	Occlusion of Left Lower Extremity Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LG4DZ	Occlusion of Left Lower Extremity Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07LG4ZZ	Occlusion of Left Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LH0CZ	Occlusion of Right Inguinal Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07LH0DZ	Occlusion of Right Inguinal Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07LH0ZZ	Occlusion of Right Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07LH3CZ	Occlusion of Right Inguinal Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LH3DZ	Occlusion of Right Inguinal Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LH3ZZ	Occlusion of Right Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07LH4CZ	Occlusion of Right Inguinal Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LH4DZ	Occlusion of Right Inguinal Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LH4ZZ	Occlusion of Right Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LJ0CZ	Occlusion of Left Inguinal Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07LJ0DZ	Occlusion of Left Inguinal Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07LJ0ZZ	Occlusion of Left Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07LJ3CZ	Occlusion of Left Inguinal Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LJ3DZ	Occlusion of Left Inguinal Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LJ3ZZ	Occlusion of Left Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07LJ4CZ	Occlusion of Left Inguinal Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LJ4DZ	Occlusion of Left Inguinal Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LJ4ZZ	Occlusion of Left Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LK0CZ	Occlusion of Thoracic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07LK0DZ	Occlusion of Thoracic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07LK0ZZ	Occlusion of Thoracic Duct, Open Approach	PX	ICD-10-PCS
07LK3CZ	Occlusion of Thoracic Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LK3DZ	Occlusion of Thoracic Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LK3ZZ	Occlusion of Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07LK4CZ	Occlusion of Thoracic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LK4DZ	Occlusion of Thoracic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LK4ZZ	Occlusion of Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LL0CZ	Occlusion of Cisterna Chyli with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07LL0DZ	Occlusion of Cisterna Chyli with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07LL0ZZ	Occlusion of Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07LL3CZ	Occlusion of Cisterna Chyli with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LL3DZ	Occlusion of Cisterna Chyli with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07LL3ZZ	Occlusion of Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07LL4CZ	Occlusion of Cisterna Chyli with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LL4DZ	Occlusion of Cisterna Chyli with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07LL4ZZ	Occlusion of Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07N00ZZ	Release Head Lymphatic, Open Approach	PX	ICD-10-PCS
07N03ZZ	Release Head Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07N04ZZ	Release Head Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07N10ZZ	Release Right Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07N13ZZ	Release Right Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07N14ZZ	Release Right Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07N20ZZ	Release Left Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07N23ZZ	Release Left Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07N24ZZ	Release Left Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07N30ZZ	Release Right Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07N33ZZ	Release Right Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07N34ZZ	Release Right Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07N40ZZ	Release Left Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07N43ZZ	Release Left Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07N44ZZ	Release Left Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07N50ZZ	Release Right Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07N53ZZ	Release Right Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07N54ZZ	Release Right Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07N60ZZ	Release Left Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07N63ZZ	Release Left Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07N64ZZ	Release Left Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07N70ZZ	Release Thorax Lymphatic, Open Approach	PX	ICD-10-PCS
07N73ZZ	Release Thorax Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07N74ZZ	Release Thorax Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07N80ZZ	Release Right Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07N83ZZ	Release Right Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07N84ZZ	Release Right Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07N90ZZ	Release Left Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07N93ZZ	Release Left Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07N94ZZ	Release Left Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07NB0ZZ	Release Mesenteric Lymphatic, Open Approach	PX	ICD-10-PCS
07NB3ZZ	Release Mesenteric Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07NB4ZZ	Release Mesenteric Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07NC0ZZ	Release Pelvis Lymphatic, Open Approach	PX	ICD-10-PCS
07NC3ZZ	Release Pelvis Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07NC4ZZ	Release Pelvis Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07ND0ZZ	Release Aortic Lymphatic, Open Approach	PX	ICD-10-PCS
07ND3ZZ	Release Aortic Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07ND4ZZ	Release Aortic Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07NF0ZZ	Release Right Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07NF3ZZ	Release Right Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07NF4ZZ	Release Right Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07NG0ZZ	Release Left Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07NG3ZZ	Release Left Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07NG4ZZ	Release Left Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07NH0ZZ	Release Right Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07NH3ZZ	Release Right Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07NH4ZZ	Release Right Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07NJ0ZZ	Release Left Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07NJ3ZZ	Release Left Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07NJ4ZZ	Release Left Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07NK0ZZ	Release Thoracic Duct, Open Approach	PX	ICD-10-PCS
07NK3ZZ	Release Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07NK4ZZ	Release Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07NL0ZZ	Release Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07NL3ZZ	Release Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07NL4ZZ	Release Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07NM0ZZ	Release Thymus, Open Approach	PX	ICD-10-PCS
07NM3ZZ	Release Thymus, Percutaneous Approach	PX	ICD-10-PCS
07NM4ZZ	Release Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07NP0ZZ	Release Spleen, Open Approach	PX	ICD-10-PCS
07NP3ZZ	Release Spleen, Percutaneous Approach	PX	ICD-10-PCS
07NP4ZZ	Release Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PK00Z	Removal of Drainage Device from Thoracic Duct, Open Approach	PX	ICD-10-PCS
07PK03Z	Removal of Infusion Device from Thoracic Duct, Open Approach	PX	ICD-10-PCS
07PK07Z	Removal of Autologous Tissue Substitute from Thoracic Duct, Open Approach	PX	ICD-10-PCS
07PK0CZ	Removal of Extraluminal Device from Thoracic Duct, Open Approach	PX	ICD-10-PCS
07PK0DZ	Removal of Intraluminal Device from Thoracic Duct, Open Approach	PX	ICD-10-PCS
07PK0JZ	Removal of Synthetic Substitute from Thoracic Duct, Open Approach	PX	ICD-10-PCS
07PK0KZ	Removal of Nonautologous Tissue Substitute from Thoracic Duct, Open Approach	PX	ICD-10-PCS
07PK0YZ	Removal of Other Device from Thoracic Duct, Open Approach	PX	ICD-10-PCS
07PK30Z	Removal of Drainage Device from Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07PK33Z	Removal of Infusion Device from Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07PK37Z	Removal of Autologous Tissue Substitute from Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07PK3CZ	Removal of Extraluminal Device from Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07PK3DZ	Removal of Intraluminal Device from Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07PK3JZ	Removal of Synthetic Substitute from Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07PK3KZ	Removal of Nonautologous Tissue Substitute from Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07PK40Z	Removal of Drainage Device from Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07PK43Z	Removal of Infusion Device from Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PK47Z	Removal of Autologous Tissue Substitute from Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PK4CZ	Removal of Extraluminal Device from Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PK4DZ	Removal of Intraluminal Device from Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PK4JZ	Removal of Synthetic Substitute from Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PK4KZ	Removal of Nonautologous Tissue Substitute from Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PK4YZ	Removal of Other Device from Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PL00Z	Removal of Drainage Device from Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07PL03Z	Removal of Infusion Device from Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07PL07Z	Removal of Autologous Tissue Substitute from Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07PL0CZ	Removal of Extraluminal Device from Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07PL0DZ	Removal of Intraluminal Device from Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07PL0JZ	Removal of Synthetic Substitute from Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07PL0KZ	Removal of Nonautologous Tissue Substitute from Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07PL0YZ	Removal of Other Device from Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07PL30Z	Removal of Drainage Device from Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07PL33Z	Removal of Infusion Device from Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07PL37Z	Removal of Autologous Tissue Substitute from Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07PL3CZ	Removal of Extraluminal Device from Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07PL3DZ	Removal of Intraluminal Device from Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07PL3JZ	Removal of Synthetic Substitute from Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07PL3KZ	Removal of Nonautologous Tissue Substitute from Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07PL40Z	Removal of Drainage Device from Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PL43Z	Removal of Infusion Device from Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PL47Z	Removal of Autologous Tissue Substitute from Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PL4CZ	Removal of Extraluminal Device from Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PL4DZ	Removal of Intraluminal Device from Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PL4JZ	Removal of Synthetic Substitute from Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07PL4KZ	Removal of Nonautologous Tissue Substitute from Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PL4YZ	Removal of Other Device from Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PM00Z	Removal of Drainage Device from Thymus, Open Approach	PX	ICD-10-PCS
07PM03Z	Removal of Infusion Device from Thymus, Open Approach	PX	ICD-10-PCS
07PM0YZ	Removal of Other Device from Thymus, Open Approach	PX	ICD-10-PCS
07PM30Z	Removal of Drainage Device from Thymus, Percutaneous Approach	PX	ICD-10-PCS
07PM33Z	Removal of Infusion Device from Thymus, Percutaneous Approach	PX	ICD-10-PCS
07PM40Z	Removal of Drainage Device from Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PM43Z	Removal of Infusion Device from Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PM4YZ	Removal of Other Device from Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PN00Z	Removal of Drainage Device from Lymphatic, Open Approach	PX	ICD-10-PCS
07PN03Z	Removal of Infusion Device from Lymphatic, Open Approach	PX	ICD-10-PCS
07PN07Z	Removal of Autologous Tissue Substitute from Lymphatic, Open Approach	PX	ICD-10-PCS
07PN0CZ	Removal of Extraluminal Device from Lymphatic, Open Approach	PX	ICD-10-PCS
07PN0DZ	Removal of Intraluminal Device from Lymphatic, Open Approach	PX	ICD-10-PCS
07PN0JZ	Removal of Synthetic Substitute from Lymphatic, Open Approach	PX	ICD-10-PCS
07PN0KZ	Removal of Nonautologous Tissue Substitute from Lymphatic, Open Approach	PX	ICD-10-PCS
07PN0YZ	Removal of Other Device from Lymphatic, Open Approach	PX	ICD-10-PCS
07PN30Z	Removal of Drainage Device from Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07PN33Z	Removal of Infusion Device from Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07PN37Z	Removal of Autologous Tissue Substitute from Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07PN3CZ	Removal of Extraluminal Device from Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07PN3DZ	Removal of Intraluminal Device from Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07PN3JZ	Removal of Synthetic Substitute from Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07PN3KZ	Removal of Nonautologous Tissue Substitute from Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07PN40Z	Removal of Drainage Device from Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PN43Z	Removal of Infusion Device from Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PN47Z	Removal of Autologous Tissue Substitute from Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PN4CZ	Removal of Extraluminal Device from Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PN4DZ	Removal of Intraluminal Device from Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PN4JZ	Removal of Synthetic Substitute from Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PN4KZ	Removal of Nonautologous Tissue Substitute from Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PN4YZ	Removal of Other Device from Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PP00Z	Removal of Drainage Device from Spleen, Open Approach	PX	ICD-10-PCS
07PP03Z	Removal of Infusion Device from Spleen, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07PP0YZ	Removal of Other Device from Spleen, Open Approach	PX	ICD-10-PCS
07PP30Z	Removal of Drainage Device from Spleen, Percutaneous Approach	PX	ICD-10-PCS
07PP33Z	Removal of Infusion Device from Spleen, Percutaneous Approach	PX	ICD-10-PCS
07PP40Z	Removal of Drainage Device from Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PP43Z	Removal of Infusion Device from Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PP4YZ	Removal of Other Device from Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07PT00Z	Removal of Drainage Device from Bone Marrow, Open Approach	PX	ICD-10-PCS
07PT40Z	Removal of Drainage Device from Bone Marrow, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q00ZZ	Repair Head Lymphatic, Open Approach	PX	ICD-10-PCS
07Q03ZZ	Repair Head Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07Q04ZZ	Repair Head Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q08ZZ	Repair Head Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07Q10ZZ	Repair Right Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07Q13ZZ	Repair Right Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07Q14ZZ	Repair Right Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q18ZZ	Repair Right Neck Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07Q20ZZ	Repair Left Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07Q23ZZ	Repair Left Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07Q24ZZ	Repair Left Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q28ZZ	Repair Left Neck Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07Q30ZZ	Repair Right Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07Q33ZZ	Repair Right Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07Q34ZZ	Repair Right Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q38ZZ	Repair Right Upper Extremity Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07Q40ZZ	Repair Left Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07Q43ZZ	Repair Left Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07Q44ZZ	Repair Left Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q48ZZ	Repair Left Upper Extremity Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07Q50ZZ	Repair Right Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07Q53ZZ	Repair Right Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07Q54ZZ	Repair Right Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q58ZZ	Repair Right Axillary Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07Q60ZZ	Repair Left Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07Q63ZZ	Repair Left Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07Q64ZZ	Repair Left Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q68ZZ	Repair Left Axillary Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07Q70ZZ	Repair Thorax Lymphatic, Open Approach	PX	ICD-10-PCS
07Q73ZZ	Repair Thorax Lymphatic, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07Q74ZZ	Repair Thorax Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q78ZZ	Repair Thorax Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07Q80ZZ	Repair Right Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07Q83ZZ	Repair Right Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07Q84ZZ	Repair Right Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q88ZZ	Repair Right Internal Mammary Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07Q90ZZ	Repair Left Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07Q93ZZ	Repair Left Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07Q94ZZ	Repair Left Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07Q98ZZ	Repair Left Internal Mammary Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07QB0ZZ	Repair Mesenteric Lymphatic, Open Approach	PX	ICD-10-PCS
07QB3ZZ	Repair Mesenteric Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07QB4ZZ	Repair Mesenteric Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07QB8ZZ	Repair Mesenteric Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07QC0ZZ	Repair Pelvis Lymphatic, Open Approach	PX	ICD-10-PCS
07QC3ZZ	Repair Pelvis Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07QC4ZZ	Repair Pelvis Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07QC8ZZ	Repair Pelvis Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07QD0ZZ	Repair Aortic Lymphatic, Open Approach	PX	ICD-10-PCS
07QD3ZZ	Repair Aortic Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07QD4ZZ	Repair Aortic Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07QD8ZZ	Repair Aortic Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07QF0ZZ	Repair Right Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07QF3ZZ	Repair Right Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07QF4ZZ	Repair Right Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07QF8ZZ	Repair Right Lower Extremity Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07QG0ZZ	Repair Left Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07QG3ZZ	Repair Left Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07QG4ZZ	Repair Left Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07QG8ZZ	Repair Left Lower Extremity Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07QH0ZZ	Repair Right Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07QH3ZZ	Repair Right Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07QH4ZZ	Repair Right Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07QH8ZZ	Repair Right Inguinal Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07QJ0ZZ	Repair Left Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07QJ3ZZ	Repair Left Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07QJ4ZZ	Repair Left Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07QJ8ZZ	Repair Left Inguinal Lymphatic, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07QK0ZZ	Repair Thoracic Duct, Open Approach	PX	ICD-10-PCS
07QK3ZZ	Repair Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07QK4ZZ	Repair Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07QK8ZZ	Repair Thoracic Duct, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07QL0ZZ	Repair Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07QL3ZZ	Repair Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07QL4ZZ	Repair Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07QL8ZZ	Repair Cisterna Chyli, Via Natural or Artificial Opening Endoscopic Approach	PX	ICD-10-PCS
07QM0ZZ	Repair Thymus, Open Approach	PX	ICD-10-PCS
07QM3ZZ	Repair Thymus, Percutaneous Approach	PX	ICD-10-PCS
07QM4ZZ	Repair Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07QP0ZZ	Repair Spleen, Open Approach	PX	ICD-10-PCS
07QP3ZZ	Repair Spleen, Percutaneous Approach	PX	ICD-10-PCS
07QP4ZZ	Repair Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07SM0ZZ	Reposition Thymus, Open Approach	PX	ICD-10-PCS
07SP0ZZ	Reposition Spleen, Open Approach	PX	ICD-10-PCS
07T00ZZ	Resection of Head Lymphatic, Open Approach	PX	ICD-10-PCS
07T04ZZ	Resection of Head Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07T10ZZ	Resection of Right Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07T14ZZ	Resection of Right Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07T20ZZ	Resection of Left Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07T24ZZ	Resection of Left Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07T30ZZ	Resection of Right Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07T34ZZ	Resection of Right Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07T40ZZ	Resection of Left Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07T44ZZ	Resection of Left Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07T50ZZ	Resection of Right Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07T54ZZ	Resection of Right Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07T60ZZ	Resection of Left Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07T64ZZ	Resection of Left Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07T70ZZ	Resection of Thorax Lymphatic, Open Approach	PX	ICD-10-PCS
07T74ZZ	Resection of Thorax Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07T80ZZ	Resection of Right Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07T84ZZ	Resection of Right Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07T90ZZ	Resection of Left Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07T94ZZ	Resection of Left Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TB0ZZ	Resection of Mesenteric Lymphatic, Open Approach	PX	ICD-10-PCS
07TB4ZZ	Resection of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TC0ZZ	Resection of Pelvis Lymphatic, Open Approach	PX	ICD-10-PCS
07TC4ZZ	Resection of Pelvis Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TD0ZZ	Resection of Aortic Lymphatic, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07TD4ZZ	Resection of Aortic Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TF0ZZ	Resection of Right Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07TF4ZZ	Resection of Right Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TG0ZZ	Resection of Left Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07TG4ZZ	Resection of Left Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TH0ZZ	Resection of Right Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07TH4ZZ	Resection of Right Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TJ0ZZ	Resection of Left Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07TJ4ZZ	Resection of Left Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TK0ZZ	Resection of Thoracic Duct, Open Approach	PX	ICD-10-PCS
07TK4ZZ	Resection of Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TL0ZZ	Resection of Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07TL4ZZ	Resection of Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TM0ZZ	Resection of Thymus, Open Approach	PX	ICD-10-PCS
07TM4ZZ	Resection of Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07TP0ZZ	Resection of Spleen, Open Approach	PX	ICD-10-PCS
07TP4ZG	Resection of spleen, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
07TP4ZZ	Resection of Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U007Z	Supplement Head Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U00JZ	Supplement Head Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07U00KZ	Supplement Head Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U047Z	Supplement Head Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U04JZ	Supplement Head Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U04KZ	Supplement Head Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U107Z	Supplement Right Neck Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U10JZ	Supplement Right Neck Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07U10KZ	Supplement Right Neck Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U147Z	Supplement Right Neck Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U14JZ	Supplement Right Neck Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U14KZ	Supplement Right Neck Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U207Z	Supplement Left Neck Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U20JZ	Supplement Left Neck Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07U20KZ	Supplement Left Neck Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U247Z	Supplement Left Neck Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U24JZ	Supplement Left Neck Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U24KZ	Supplement Left Neck Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U307Z	Supplement Right Upper Extremity Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U30JZ	Supplement Right Upper Extremity Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07U30KZ	Supplement Right Upper Extremity Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U347Z	Supplement Right Upper Extremity Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U34JZ	Supplement Right Upper Extremity Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U34KZ	Supplement Right Upper Extremity Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U407Z	Supplement Left Upper Extremity Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U40JZ	Supplement Left Upper Extremity Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07U40KZ	Supplement Left Upper Extremity Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U447Z	Supplement Left Upper Extremity Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U44JZ	Supplement Left Upper Extremity Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U44KZ	Supplement Left Upper Extremity Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U507Z	Supplement Right Axillary Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U50JZ	Supplement Right Axillary Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07U50KZ	Supplement Right Axillary Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U547Z	Supplement Right Axillary Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U54JZ	Supplement Right Axillary Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U54KZ	Supplement Right Axillary Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U607Z	Supplement Left Axillary Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07U60JZ	Supplement Left Axillary Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07U60KZ	Supplement Left Axillary Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U647Z	Supplement Left Axillary Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U64JZ	Supplement Left Axillary Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U64KZ	Supplement Left Axillary Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U707Z	Supplement Thorax Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U70JZ	Supplement Thorax Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07U70KZ	Supplement Thorax Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U747Z	Supplement Thorax Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U74JZ	Supplement Thorax Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U74KZ	Supplement Thorax Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U807Z	Supplement Right Internal Mammary Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U80JZ	Supplement Right Internal Mammary Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07U80KZ	Supplement Right Internal Mammary Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U847Z	Supplement Right Internal Mammary Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U84JZ	Supplement Right Internal Mammary Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U84KZ	Supplement Right Internal Mammary Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U907Z	Supplement Left Internal Mammary Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U90JZ	Supplement Left Internal Mammary Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07U90KZ	Supplement Left Internal Mammary Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07U947Z	Supplement Left Internal Mammary Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U94JZ	Supplement Left Internal Mammary Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07U94KZ	Supplement Left Internal Mammary Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07UB07Z	Supplement Mesenteric Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UB0JZ	Supplement Mesenteric Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07UB0KZ	Supplement Mesenteric Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UB47Z	Supplement Mesenteric Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UB4JZ	Supplement Mesenteric Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UB4KZ	Supplement Mesenteric Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UC07Z	Supplement Pelvis Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UC0JZ	Supplement Pelvis Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07UC0KZ	Supplement Pelvis Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UC47Z	Supplement Pelvis Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UC4JZ	Supplement Pelvis Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UC4KZ	Supplement Pelvis Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UD07Z	Supplement Aortic Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UD0JZ	Supplement Aortic Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07UD0KZ	Supplement Aortic Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UD47Z	Supplement Aortic Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UD4JZ	Supplement Aortic Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UD4KZ	Supplement Aortic Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UF07Z	Supplement Right Lower Extremity Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UF0JZ	Supplement Right Lower Extremity Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07UF0KZ	Supplement Right Lower Extremity Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UF47Z	Supplement Right Lower Extremity Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UF4JZ	Supplement Right Lower Extremity Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UF4KZ	Supplement Right Lower Extremity Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07UG07Z	Supplement Left Lower Extremity Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UG0JZ	Supplement Left Lower Extremity Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07UG0KZ	Supplement Left Lower Extremity Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UG47Z	Supplement Left Lower Extremity Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UG4JZ	Supplement Left Lower Extremity Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UG4KZ	Supplement Left Lower Extremity Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UH07Z	Supplement Right Inguinal Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UH0JZ	Supplement Right Inguinal Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07UH0KZ	Supplement Right Inguinal Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UH47Z	Supplement Right Inguinal Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UH4JZ	Supplement Right Inguinal Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UH4KZ	Supplement Right Inguinal Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UJ07Z	Supplement Left Inguinal Lymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UJ0JZ	Supplement Left Inguinal Lymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07UJ0KZ	Supplement Left Inguinal Lymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UJ47Z	Supplement Left Inguinal Lymphatic with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UJ4JZ	Supplement Left Inguinal Lymphatic with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UJ4KZ	Supplement Left Inguinal Lymphatic with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UK07Z	Supplement Thoracic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UK0JZ	Supplement Thoracic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07UK0KZ	Supplement Thoracic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UK47Z	Supplement Thoracic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UK4JZ	Supplement Thoracic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UK4KZ	Supplement Thoracic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UL07Z	Supplement Cisterna Chyli with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
07UL0JZ	Supplement Cisterna Chyli with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
07UL0KZ	Supplement Cisterna Chyli with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
07UL47Z	Supplement Cisterna Chyli with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UL4JZ	Supplement Cisterna Chyli with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07UL4KZ	Supplement Cisterna Chyli with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V00CZ	Restriction of Head Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07V00DZ	Restriction of Head Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07V00ZZ	Restriction of Head Lymphatic, Open Approach	PX	ICD-10-PCS
07V03CZ	Restriction of Head Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V03DZ	Restriction of Head Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V03ZZ	Restriction of Head Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07V04CZ	Restriction of Head Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V04DZ	Restriction of Head Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V04ZZ	Restriction of Head Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V10CZ	Restriction of Right Neck Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07V10DZ	Restriction of Right Neck Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07V10ZZ	Restriction of Right Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07V13CZ	Restriction of Right Neck Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V13DZ	Restriction of Right Neck Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V13ZZ	Restriction of Right Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07V14CZ	Restriction of Right Neck Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V14DZ	Restriction of Right Neck Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V14ZZ	Restriction of Right Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V20CZ	Restriction of Left Neck Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07V20DZ	Restriction of Left Neck Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07V20ZZ	Restriction of Left Neck Lymphatic, Open Approach	PX	ICD-10-PCS
07V23CZ	Restriction of Left Neck Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V23DZ	Restriction of Left Neck Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V23ZZ	Restriction of Left Neck Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07V24CZ	Restriction of Left Neck Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
07V24DZ	Restriction of Left Neck Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V24ZZ	Restriction of Left Neck Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V30CZ	Restriction of Right Upper Extremity Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07V30DZ	Restriction of Right Upper Extremity Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07V30ZZ	Restriction of Right Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07V33CZ	Restriction of Right Upper Extremity Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V33DZ	Restriction of Right Upper Extremity Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V33ZZ	Restriction of Right Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07V34CZ	Restriction of Right Upper Extremity Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V34DZ	Restriction of Right Upper Extremity Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V34ZZ	Restriction of Right Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V40CZ	Restriction of Left Upper Extremity Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07V40DZ	Restriction of Left Upper Extremity Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07V40ZZ	Restriction of Left Upper Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07V43CZ	Restriction of Left Upper Extremity Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V43DZ	Restriction of Left Upper Extremity Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V43ZZ	Restriction of Left Upper Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07V44CZ	Restriction of Left Upper Extremity Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V44DZ	Restriction of Left Upper Extremity Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V44ZZ	Restriction of Left Upper Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V50CZ	Restriction of Right Axillary Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07V50DZ	Restriction of Right Axillary Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07V50ZZ	Restriction of Right Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07V53CZ	Restriction of Right Axillary Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V53DZ	Restriction of Right Axillary Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V53ZZ	Restriction of Right Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07V54CZ	Restriction of Right Axillary Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07V54DZ	Restriction of Right Axillary Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V54ZZ	Restriction of Right Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V60CZ	Restriction of Left Axillary Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07V60DZ	Restriction of Left Axillary Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07V60ZZ	Restriction of Left Axillary Lymphatic, Open Approach	PX	ICD-10-PCS
07V63CZ	Restriction of Left Axillary Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V63DZ	Restriction of Left Axillary Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V63ZZ	Restriction of Left Axillary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07V64CZ	Restriction of Left Axillary Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V64DZ	Restriction of Left Axillary Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V64ZZ	Restriction of Left Axillary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V70CZ	Restriction of Thorax Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07V70DZ	Restriction of Thorax Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07V70ZZ	Restriction of Thorax Lymphatic, Open Approach	PX	ICD-10-PCS
07V73CZ	Restriction of Thorax Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V73DZ	Restriction of Thorax Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V73ZZ	Restriction of Thorax Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07V74CZ	Restriction of Thorax Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V74DZ	Restriction of Thorax Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V74ZZ	Restriction of Thorax Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V80CZ	Restriction of Right Internal Mammary Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07V80DZ	Restriction of Right Internal Mammary Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07V80ZZ	Restriction of Right Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07V83CZ	Restriction of Right Internal Mammary Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V83DZ	Restriction of Right Internal Mammary Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V83ZZ	Restriction of Right Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07V84CZ	Restriction of Right Internal Mammary Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V84DZ	Restriction of Right Internal Mammary Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V84ZZ	Restriction of Right Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07V90CZ	Restriction of Left Internal Mammary Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07V90DZ	Restriction of Left Internal Mammary Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07V90ZZ	Restriction of Left Internal Mammary Lymphatic, Open Approach	PX	ICD-10-PCS
07V93CZ	Restriction of Left Internal Mammary Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V93DZ	Restriction of Left Internal Mammary Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07V93ZZ	Restriction of Left Internal Mammary Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07V94CZ	Restriction of Left Internal Mammary Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V94DZ	Restriction of Left Internal Mammary Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07V94ZZ	Restriction of Left Internal Mammary Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VB0CZ	Restriction of Mesenteric Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07VB0DZ	Restriction of Mesenteric Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07VB0ZZ	Restriction of Mesenteric Lymphatic, Open Approach	PX	ICD-10-PCS
07VB3CZ	Restriction of Mesenteric Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VB3DZ	Restriction of Mesenteric Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VB3ZZ	Restriction of Mesenteric Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07VB4CZ	Restriction of Mesenteric Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VB4DZ	Restriction of Mesenteric Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VB4ZZ	Restriction of Mesenteric Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VC0CZ	Restriction of Pelvis Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07VC0DZ	Restriction of Pelvis Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07VC0ZZ	Restriction of Pelvis Lymphatic, Open Approach	PX	ICD-10-PCS
07VC3CZ	Restriction of Pelvis Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VC3DZ	Restriction of Pelvis Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VC3ZZ	Restriction of Pelvis Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07VC4CZ	Restriction of Pelvis Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VC4DZ	Restriction of Pelvis Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VC4ZZ	Restriction of Pelvis Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VD0CZ	Restriction of Aortic Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07VD0DZ	Restriction of Aortic Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07VD0ZZ	Restriction of Aortic Lymphatic, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07VD3CZ	Restriction of Aortic Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VD3DZ	Restriction of Aortic Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VD3ZZ	Restriction of Aortic Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07VD4CZ	Restriction of Aortic Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VD4DZ	Restriction of Aortic Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VD4ZZ	Restriction of Aortic Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VF0CZ	Restriction of Right Lower Extremity Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07VF0DZ	Restriction of Right Lower Extremity Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07VF0ZZ	Restriction of Right Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07VF3CZ	Restriction of Right Lower Extremity Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VF3DZ	Restriction of Right Lower Extremity Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VF3ZZ	Restriction of Right Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07VF4CZ	Restriction of Right Lower Extremity Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VF4DZ	Restriction of Right Lower Extremity Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VF4ZZ	Restriction of Right Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VG0CZ	Restriction of Left Lower Extremity Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07VG0DZ	Restriction of Left Lower Extremity Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07VG0ZZ	Restriction of Left Lower Extremity Lymphatic, Open Approach	PX	ICD-10-PCS
07VG3CZ	Restriction of Left Lower Extremity Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VG3DZ	Restriction of Left Lower Extremity Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VG3ZZ	Restriction of Left Lower Extremity Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07VG4CZ	Restriction of Left Lower Extremity Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VG4DZ	Restriction of Left Lower Extremity Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VG4ZZ	Restriction of Left Lower Extremity Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VH0CZ	Restriction of Right Inguinal Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07VH0DZ	Restriction of Right Inguinal Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07VH0ZZ	Restriction of Right Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07VH3CZ	Restriction of Right Inguinal Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VH3DZ	Restriction of Right Inguinal Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VH3ZZ	Restriction of Right Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07VH4CZ	Restriction of Right Inguinal Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VH4DZ	Restriction of Right Inguinal Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VH4ZZ	Restriction of Right Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VJ0CZ	Restriction of Left Inguinal Lymphatic with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07VJ0DZ	Restriction of Left Inguinal Lymphatic with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07VJ0ZZ	Restriction of Left Inguinal Lymphatic, Open Approach	PX	ICD-10-PCS
07VJ3CZ	Restriction of Left Inguinal Lymphatic with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VJ3DZ	Restriction of Left Inguinal Lymphatic with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VJ3ZZ	Restriction of Left Inguinal Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07VJ4CZ	Restriction of Left Inguinal Lymphatic with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VJ4DZ	Restriction of Left Inguinal Lymphatic with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VJ4ZZ	Restriction of Left Inguinal Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VK0CZ	Restriction of Thoracic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07VK0DZ	Restriction of Thoracic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07VK0ZZ	Restriction of Thoracic Duct, Open Approach	PX	ICD-10-PCS
07VK3CZ	Restriction of Thoracic Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VK3DZ	Restriction of Thoracic Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VK3ZZ	Restriction of Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07VK4CZ	Restriction of Thoracic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VK4DZ	Restriction of Thoracic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VK4ZZ	Restriction of Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VL0CZ	Restriction of Cisterna Chyli with Extraluminal Device, Open Approach	PX	ICD-10-PCS
07VL0DZ	Restriction of Cisterna Chyli with Intraluminal Device, Open Approach	PX	ICD-10-PCS
07VL0ZZ	Restriction of Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07VL3CZ	Restriction of Cisterna Chyli with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VL3DZ	Restriction of Cisterna Chyli with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
07VL3ZZ	Restriction of Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07VL4CZ	Restriction of Cisterna Chyli with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07VL4DZ	Restriction of Cisterna Chyli with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07VL4ZZ	Restriction of Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WK00Z	Revision of Drainage Device in Thoracic Duct, Open Approach	PX	ICD-10-PCS
07WK03Z	Revision of Infusion Device in Thoracic Duct, Open Approach	PX	ICD-10-PCS
07WK07Z	Revision of Autologous Tissue Substitute in Thoracic Duct, Open Approach	PX	ICD-10-PCS
07WK0CZ	Revision of Extraluminal Device in Thoracic Duct, Open Approach	PX	ICD-10-PCS
07WK0DZ	Revision of Intraluminal Device in Thoracic Duct, Open Approach	PX	ICD-10-PCS
07WK0JZ	Revision of Synthetic Substitute in Thoracic Duct, Open Approach	PX	ICD-10-PCS
07WK0KZ	Revision of Nonautologous Tissue Substitute in Thoracic Duct, Open Approach	PX	ICD-10-PCS
07WK0YZ	Revision of Other Device in Thoracic Duct, Open Approach	PX	ICD-10-PCS
07WK30Z	Revision of Drainage Device in Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07WK33Z	Revision of Infusion Device in Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07WK37Z	Revision of Autologous Tissue Substitute in Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07WK3CZ	Revision of Extraluminal Device in Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07WK3DZ	Revision of Intraluminal Device in Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07WK3JZ	Revision of Synthetic Substitute in Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07WK3KZ	Revision of Nonautologous Tissue Substitute in Thoracic Duct, Percutaneous Approach	PX	ICD-10-PCS
07WK40Z	Revision of Drainage Device in Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WK43Z	Revision of Infusion Device in Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WK47Z	Revision of Autologous Tissue Substitute in Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WK4CZ	Revision of Extraluminal Device in Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WK4DZ	Revision of Intraluminal Device in Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WK4JZ	Revision of Synthetic Substitute in Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WK4KZ	Revision of Nonautologous Tissue Substitute in Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WK4YZ	Revision of Other Device in Thoracic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WL00Z	Revision of Drainage Device in Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07WL03Z	Revision of Infusion Device in Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07WL07Z	Revision of Autologous Tissue Substitute in Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07WL0CZ	Revision of Extraluminal Device in Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07WL0DZ	Revision of Intraluminal Device in Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07WL0JZ	Revision of Synthetic Substitute in Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07WL0KZ	Revision of Nonautologous Tissue Substitute in Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07WL0YZ	Revision of Other Device in Cisterna Chyli, Open Approach	PX	ICD-10-PCS
07WL30Z	Revision of Drainage Device in Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07WL33Z	Revision of Infusion Device in Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
07WL37Z	Revision of Autologous Tissue Substitute in Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07WL3CZ	Revision of Extraluminal Device in Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07WL3DZ	Revision of Intraluminal Device in Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07WL3JZ	Revision of Synthetic Substitute in Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07WL3KZ	Revision of Nonautologous Tissue Substitute in Cisterna Chyli, Percutaneous Approach	PX	ICD-10-PCS
07WL40Z	Revision of Drainage Device in Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WL43Z	Revision of Infusion Device in Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WL47Z	Revision of Autologous Tissue Substitute in Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WL4CZ	Revision of Extraluminal Device in Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WL4DZ	Revision of Intraluminal Device in Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WL4JZ	Revision of Synthetic Substitute in Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WL4KZ	Revision of Nonautologous Tissue Substitute in Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WL4YZ	Revision of Other Device in Cisterna Chyli, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WM00Z	Revision of Drainage Device in Thymus, Open Approach	PX	ICD-10-PCS
07WM03Z	Revision of Infusion Device in Thymus, Open Approach	PX	ICD-10-PCS
07WM0YZ	Revision of Other Device in Thymus, Open Approach	PX	ICD-10-PCS
07WM30Z	Revision of Drainage Device in Thymus, Percutaneous Approach	PX	ICD-10-PCS
07WM33Z	Revision of Infusion Device in Thymus, Percutaneous Approach	PX	ICD-10-PCS
07WM40Z	Revision of Drainage Device in Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WM43Z	Revision of Infusion Device in Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WM4YZ	Revision of Other Device in Thymus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WN00Z	Revision of Drainage Device in Lymphatic, Open Approach	PX	ICD-10-PCS
07WN03Z	Revision of Infusion Device in Lymphatic, Open Approach	PX	ICD-10-PCS
07WN07Z	Revision of Autologous Tissue Substitute in Lymphatic, Open Approach	PX	ICD-10-PCS
07WN0CZ	Revision of Extraluminal Device in Lymphatic, Open Approach	PX	ICD-10-PCS
07WN0DZ	Revision of Intraluminal Device in Lymphatic, Open Approach	PX	ICD-10-PCS
07WN0JZ	Revision of Synthetic Substitute in Lymphatic, Open Approach	PX	ICD-10-PCS
07WN0KZ	Revision of Nonautologous Tissue Substitute in Lymphatic, Open Approach	PX	ICD-10-PCS
07WN0YZ	Revision of Other Device in Lymphatic, Open Approach	PX	ICD-10-PCS
07WN30Z	Revision of Drainage Device in Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07WN33Z	Revision of Infusion Device in Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07WN37Z	Revision of Autologous Tissue Substitute in Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07WN3CZ	Revision of Extraluminal Device in Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07WN3DZ	Revision of Intraluminal Device in Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07WN3JZ	Revision of Synthetic Substitute in Lymphatic, Percutaneous Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
07WN3KZ	Revision of Nonautologous Tissue Substitute in Lymphatic, Percutaneous Approach	PX	ICD-10-PCS
07WN40Z	Revision of Drainage Device in Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WN43Z	Revision of Infusion Device in Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WN47Z	Revision of Autologous Tissue Substitute in Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WN4CZ	Revision of Extraluminal Device in Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WN4DZ	Revision of Intraluminal Device in Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WN4JZ	Revision of Synthetic Substitute in Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WN4KZ	Revision of Nonautologous Tissue Substitute in Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WN4YZ	Revision of Other Device in Lymphatic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WP00Z	Revision of Drainage Device in Spleen, Open Approach	PX	ICD-10-PCS
07WP03Z	Revision of Infusion Device in Spleen, Open Approach	PX	ICD-10-PCS
07WP0YZ	Revision of Other Device in Spleen, Open Approach	PX	ICD-10-PCS
07WP30Z	Revision of Drainage Device in Spleen, Percutaneous Approach	PX	ICD-10-PCS
07WP33Z	Revision of Infusion Device in Spleen, Percutaneous Approach	PX	ICD-10-PCS
07WP40Z	Revision of Drainage Device in Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WP43Z	Revision of Infusion Device in Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WP4YZ	Revision of Other Device in Spleen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07WT00Z	Revision of Drainage Device in Bone Marrow, Open Approach	PX	ICD-10-PCS
07WT40Z	Revision of Drainage Device in Bone Marrow, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
07YM0Z0	Transplantation of Thymus, Allogeneic, Open Approach	PX	ICD-10-PCS
07YM0Z1	Transplantation of Thymus, Syngeneic, Open Approach	PX	ICD-10-PCS
07YM0Z2	Transplantation of Thymus, Zooplastic, Open Approach	PX	ICD-10-PCS
07YP0Z0	Transplantation of Spleen, Allogeneic, Open Approach	PX	ICD-10-PCS
07YP0Z1	Transplantation of Spleen, Syngeneic, Open Approach	PX	ICD-10-PCS
07YP0Z2	Transplantation of Spleen, Zooplastic, Open Approach	PX	ICD-10-PCS
08123J4	Bypass Right Anterior Chamber to Sclera with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08123K4	Bypass Right Anterior Chamber to Sclera with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08123Z4	Bypass Right Anterior Chamber to Sclera, Percutaneous Approach	PX	ICD-10-PCS
08133J4	Bypass Left Anterior Chamber to Sclera with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08133K4	Bypass Left Anterior Chamber to Sclera with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08133Z4	Bypass Left Anterior Chamber to Sclera, Percutaneous Approach	PX	ICD-10-PCS
081X0J3	Bypass Right Lacrimal Duct to Nasal Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
081X0K3	Bypass Right Lacrimal Duct to Nasal Cavity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
081X0Z3	Bypass Right Lacrimal Duct to Nasal Cavity, Open Approach	PX	ICD-10-PCS
081X3J3	Bypass Right Lacrimal Duct to Nasal Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
081X3K3	Bypass Right Lacrimal Duct to Nasal Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
081X3Z3	Bypass Right Lacrimal Duct to Nasal Cavity, Percutaneous Approach	PX	ICD-10-PCS
081Y0J3	Bypass Left Lacrimal Duct to Nasal Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
081Y0K3	Bypass Left Lacrimal Duct to Nasal Cavity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
081Y0Z3	Bypass Left Lacrimal Duct to Nasal Cavity, Open Approach	PX	ICD-10-PCS
081Y3J3	Bypass Left Lacrimal Duct to Nasal Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
081Y3K3	Bypass Left Lacrimal Duct to Nasal Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
081Y3Z3	Bypass Left Lacrimal Duct to Nasal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0850XZZ	Destruction of Right Eye, External Approach	PX	ICD-10-PCS
0851XZZ	Destruction of Left Eye, External Approach	PX	ICD-10-PCS
08523ZZ	Destruction of Right Anterior Chamber, Percutaneous Approach	PX	ICD-10-PCS
08533ZZ	Destruction of Left Anterior Chamber, Percutaneous Approach	PX	ICD-10-PCS
08543ZZ	Destruction of Right Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08553ZZ	Destruction of Left Vitreous, Percutaneous Approach	PX	ICD-10-PCS
0856XZZ	Destruction of Right Sclera, External Approach	PX	ICD-10-PCS
0857XZZ	Destruction of Left Sclera, External Approach	PX	ICD-10-PCS
0858XZZ	Destruction of Right Cornea, External Approach	PX	ICD-10-PCS
0859XZZ	Destruction of Left Cornea, External Approach	PX	ICD-10-PCS
085A0ZZ	Destruction of Right Choroid, Open Approach	PX	ICD-10-PCS
085A3ZZ	Destruction of Right Choroid, Percutaneous Approach	PX	ICD-10-PCS
085B0ZZ	Destruction of Left Choroid, Open Approach	PX	ICD-10-PCS
085B3ZZ	Destruction of Left Choroid, Percutaneous Approach	PX	ICD-10-PCS
085C3ZZ	Destruction of Right Iris, Percutaneous Approach	PX	ICD-10-PCS
085D3ZZ	Destruction of Left Iris, Percutaneous Approach	PX	ICD-10-PCS
085G3ZZ	Destruction of Right Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
085H3ZZ	Destruction of Left Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
085J3ZZ	Destruction of Right Lens, Percutaneous Approach	PX	ICD-10-PCS
085K3ZZ	Destruction of Left Lens, Percutaneous Approach	PX	ICD-10-PCS
085L0ZZ	Destruction of Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
085L3ZZ	Destruction of Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
085M0ZZ	Destruction of Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
085M3ZZ	Destruction of Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
085N0ZZ	Destruction of Right Upper Eyelid, Open Approach	PX	ICD-10-PCS
085N3ZZ	Destruction of Right Upper Eyelid, Percutaneous Approach	PX	ICD-10-PCS
085NXZZ	Destruction of Right Upper Eyelid, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
085P0ZZ	Destruction of Left Upper Eyelid, Open Approach	PX	ICD-10-PCS
085P3ZZ	Destruction of Left Upper Eyelid, Percutaneous Approach	PX	ICD-10-PCS
085PXZZ	Destruction of Left Upper Eyelid, External Approach	PX	ICD-10-PCS
085Q0ZZ	Destruction of Right Lower Eyelid, Open Approach	PX	ICD-10-PCS
085Q3ZZ	Destruction of Right Lower Eyelid, Percutaneous Approach	PX	ICD-10-PCS
085QXZZ	Destruction of Right Lower Eyelid, External Approach	PX	ICD-10-PCS
085R0ZZ	Destruction of Left Lower Eyelid, Open Approach	PX	ICD-10-PCS
085R3ZZ	Destruction of Left Lower Eyelid, Percutaneous Approach	PX	ICD-10-PCS
085RXZZ	Destruction of Left Lower Eyelid, External Approach	PX	ICD-10-PCS
085SXZZ	Destruction of Right Conjunctiva, External Approach	PX	ICD-10-PCS
085TXZZ	Destruction of Left Conjunctiva, External Approach	PX	ICD-10-PCS
085V0ZZ	Destruction of Right Lacrimal Gland, Open Approach	PX	ICD-10-PCS
085V3ZZ	Destruction of Right Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
085W0ZZ	Destruction of Left Lacrimal Gland, Open Approach	PX	ICD-10-PCS
085W3ZZ	Destruction of Left Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
085X0ZZ	Destruction of Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
085X3ZZ	Destruction of Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
085X7ZZ	Destruction of Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
085X8ZZ	Destruction of Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
085Y0ZZ	Destruction of Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
085Y3ZZ	Destruction of Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
085Y7ZZ	Destruction of Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
085Y8ZZ	Destruction of Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
087X0DZ	Dilation of Right Lacrimal Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
087X0ZZ	Dilation of Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
087X3DZ	Dilation of Right Lacrimal Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
087X3ZZ	Dilation of Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
087X7DZ	Dilation of Right Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
087X7ZZ	Dilation of Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
087X8DZ	Dilation of Right Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
087X8ZZ	Dilation of Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
087Y0DZ	Dilation of Left Lacrimal Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
087Y0ZZ	Dilation of Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
087Y3DZ	Dilation of Left Lacrimal Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
087Y3ZZ	Dilation of Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
087Y7DZ	Dilation of Left Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
087Y7ZZ	Dilation of Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
087Y8DZ	Dilation of Left Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
087Y8ZZ	Dilation of Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0890X0Z	Drainage of Right Eye with Drainage Device, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0891X0Z	Drainage of Left Eye with Drainage Device, External Approach	PX	ICD-10-PCS
089230Z	Drainage of Right Anterior Chamber with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
08923ZZ	Drainage of Right Anterior Chamber, Percutaneous Approach	PX	ICD-10-PCS
089330Z	Drainage of Left Anterior Chamber with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
08933ZZ	Drainage of Left Anterior Chamber, Percutaneous Approach	PX	ICD-10-PCS
089430Z	Drainage of Right Vitreous with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
08943ZZ	Drainage of Right Vitreous, Percutaneous Approach	PX	ICD-10-PCS
089530Z	Drainage of Left Vitreous with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
08953ZZ	Drainage of Left Vitreous, Percutaneous Approach	PX	ICD-10-PCS
0896X0Z	Drainage of Right Sclera with Drainage Device, External Approach	PX	ICD-10-PCS
0897X0Z	Drainage of Left Sclera with Drainage Device, External Approach	PX	ICD-10-PCS
0898X0Z	Drainage of Right Cornea with Drainage Device, External Approach	PX	ICD-10-PCS
0899X0Z	Drainage of Left Cornea with Drainage Device, External Approach	PX	ICD-10-PCS
089A00Z	Drainage of Right Choroid with Drainage Device, Open Approach	PX	ICD-10-PCS
089A0ZZ	Drainage of Right Choroid, Open Approach	PX	ICD-10-PCS
089A30Z	Drainage of Right Choroid with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089A3ZZ	Drainage of Right Choroid, Percutaneous Approach	PX	ICD-10-PCS
089B00Z	Drainage of Left Choroid with Drainage Device, Open Approach	PX	ICD-10-PCS
089B0ZZ	Drainage of Left Choroid, Open Approach	PX	ICD-10-PCS
089B30Z	Drainage of Left Choroid with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089B3ZZ	Drainage of Left Choroid, Percutaneous Approach	PX	ICD-10-PCS
089C30Z	Drainage of Right Iris with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089C3ZZ	Drainage of Right Iris, Percutaneous Approach	PX	ICD-10-PCS
089D30Z	Drainage of Left Iris with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089D3ZZ	Drainage of Left Iris, Percutaneous Approach	PX	ICD-10-PCS
089E30Z	Drainage of Right Retina with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089E3ZZ	Drainage of Right Retina, Percutaneous Approach	PX	ICD-10-PCS
089F30Z	Drainage of Left Retina with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089F3ZZ	Drainage of Left Retina, Percutaneous Approach	PX	ICD-10-PCS
089G30Z	Drainage of Right Retinal Vessel with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089G3ZZ	Drainage of Right Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
089H30Z	Drainage of Left Retinal Vessel with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089H3ZZ	Drainage of Left Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
089J30Z	Drainage of Right Lens with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089J3ZZ	Drainage of Right Lens, Percutaneous Approach	PX	ICD-10-PCS
089K30Z	Drainage of Left Lens with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089K3ZZ	Drainage of Left Lens, Percutaneous Approach	PX	ICD-10-PCS
089L00Z	Drainage of Right Extraocular Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
089L0ZZ	Drainage of Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
089L30Z	Drainage of Right Extraocular Muscle with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089L3ZZ	Drainage of Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
089M00Z	Drainage of Left Extraocular Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
089M0ZZ	Drainage of Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
089M30Z	Drainage of Left Extraocular Muscle with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089M3ZZ	Drainage of Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
089N0ZZ	Drainage of Right Upper Eyelid, Open Approach	PX	ICD-10-PCS
089P0ZZ	Drainage of Left Upper Eyelid, Open Approach	PX	ICD-10-PCS
089Q0ZZ	Drainage of Right Lower Eyelid, Open Approach	PX	ICD-10-PCS
089R0ZZ	Drainage of Left Lower Eyelid, Open Approach	PX	ICD-10-PCS
089SX0Z	Drainage of Right Conjunctiva with Drainage Device, External Approach	PX	ICD-10-PCS
089TX0Z	Drainage of Left Conjunctiva with Drainage Device, External Approach	PX	ICD-10-PCS
089V00Z	Drainage of Right Lacrimal Gland with Drainage Device, Open Approach	PX	ICD-10-PCS
089V0ZZ	Drainage of Right Lacrimal Gland, Open Approach	PX	ICD-10-PCS
089V30Z	Drainage of Right Lacrimal Gland with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089V3ZZ	Drainage of Right Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
089W00Z	Drainage of Left Lacrimal Gland with Drainage Device, Open Approach	PX	ICD-10-PCS
089W0ZZ	Drainage of Left Lacrimal Gland, Open Approach	PX	ICD-10-PCS
089W30Z	Drainage of Left Lacrimal Gland with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089W3ZZ	Drainage of Left Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
089X00Z	Drainage of Right Lacrimal Duct with Drainage Device, Open Approach	PX	ICD-10-PCS
089X0ZZ	Drainage of Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
089X30Z	Drainage of Right Lacrimal Duct with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089X3ZZ	Drainage of Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
089X70Z	Drainage of Right Lacrimal Duct with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
089X7ZZ	Drainage of Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
089X80Z	Drainage of Right Lacrimal Duct with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
089X8ZZ	Drainage of Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
089Y00Z	Drainage of Left Lacrimal Duct with Drainage Device, Open Approach	PX	ICD-10-PCS
089Y0ZZ	Drainage of Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
089Y30Z	Drainage of Left Lacrimal Duct with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
089Y3ZZ	Drainage of Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
089Y70Z	Drainage of Left Lacrimal Duct with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
089Y7ZZ	Drainage of Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
089Y80Z	Drainage of Left Lacrimal Duct with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
089Y8ZZ	Drainage of Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08B00ZZ	Excision of Right Eye, Open Approach	PX	ICD-10-PCS
08B03ZZ	Excision of Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08B0XZZ	Excision of Right Eye, External Approach	PX	ICD-10-PCS
08B10ZZ	Excision of Left Eye, Open Approach	PX	ICD-10-PCS
08B13ZZ	Excision of Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08B1XZZ	Excision of Left Eye, External Approach	PX	ICD-10-PCS
08B43ZZ	Excision of Right Vitreous, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08B53ZZ	Excision of Left Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08B6XZZ	Excision of Right Sclera, External Approach	PX	ICD-10-PCS
08B7XZZ	Excision of Left Sclera, External Approach	PX	ICD-10-PCS
08B8XZZ	Excision of Right Cornea, External Approach	PX	ICD-10-PCS
08B9XZZ	Excision of Left Cornea, External Approach	PX	ICD-10-PCS
08BA0ZZ	Excision of Right Choroid, Open Approach	PX	ICD-10-PCS
08BA3ZZ	Excision of Right Choroid, Percutaneous Approach	PX	ICD-10-PCS
08BB0ZZ	Excision of Left Choroid, Open Approach	PX	ICD-10-PCS
08BB3ZZ	Excision of Left Choroid, Percutaneous Approach	PX	ICD-10-PCS
08BC3ZZ	Excision of Right Iris, Percutaneous Approach	PX	ICD-10-PCS
08BD3ZZ	Excision of Left Iris, Percutaneous Approach	PX	ICD-10-PCS
08BE3ZZ	Excision of Right Retina, Percutaneous Approach	PX	ICD-10-PCS
08BF3ZZ	Excision of Left Retina, Percutaneous Approach	PX	ICD-10-PCS
08BJ3ZZ	Excision of Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08BK3ZZ	Excision of Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08BL0ZZ	Excision of Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08BL3ZZ	Excision of Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08BM0ZZ	Excision of Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08BM3ZZ	Excision of Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08BN0ZZ	Excision of Right Upper Eyelid, Open Approach	PX	ICD-10-PCS
08BN3ZZ	Excision of Right Upper Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08BNXZZ	Excision of Right Upper Eyelid, External Approach	PX	ICD-10-PCS
08BP0ZZ	Excision of Left Upper Eyelid, Open Approach	PX	ICD-10-PCS
08BP3ZZ	Excision of Left Upper Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08BPXZZ	Excision of Left Upper Eyelid, External Approach	PX	ICD-10-PCS
08BQ0ZZ	Excision of Right Lower Eyelid, Open Approach	PX	ICD-10-PCS
08BQ3ZZ	Excision of Right Lower Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08BQXZZ	Excision of Right Lower Eyelid, External Approach	PX	ICD-10-PCS
08BR0ZZ	Excision of Left Lower Eyelid, Open Approach	PX	ICD-10-PCS
08BR3ZZ	Excision of Left Lower Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08BRXZZ	Excision of Left Lower Eyelid, External Approach	PX	ICD-10-PCS
08BSXZZ	Excision of Right Conjunctiva, External Approach	PX	ICD-10-PCS
08BTXZZ	Excision of Left Conjunctiva, External Approach	PX	ICD-10-PCS
08BV0ZZ	Excision of Right Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08BV3ZZ	Excision of Right Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08BW0ZZ	Excision of Left Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08BW3ZZ	Excision of Left Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08BX0ZZ	Excision of Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08BX3ZZ	Excision of Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08BX7ZZ	Excision of Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08BX8ZZ	Excision of Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08BY0ZZ	Excision of Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08BY3ZZ	Excision of Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08BY7ZZ	Excision of Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08BY8ZZ	Excision of Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08C23ZZ	Extirpation of Matter from Right Anterior Chamber, Percutaneous Approach	PX	ICD-10-PCS
08C33ZZ	Extirpation of Matter from Left Anterior Chamber, Percutaneous Approach	PX	ICD-10-PCS
08C43ZZ	Extirpation of Matter from Right Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08C4XZZ	Extirpation of Matter from Right Vitreous, External Approach	PX	ICD-10-PCS
08C53ZZ	Extirpation of Matter from Left Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08C5XZZ	Extirpation of Matter from Left Vitreous, External Approach	PX	ICD-10-PCS
08C8XZZ	Extirpation of Matter from Right Cornea, External Approach	PX	ICD-10-PCS
08C9XZZ	Extirpation of Matter from Left Cornea, External Approach	PX	ICD-10-PCS
08CA0ZZ	Extirpation of Matter from Right Choroid, Open Approach	PX	ICD-10-PCS
08CA3ZZ	Extirpation of Matter from Right Choroid, Percutaneous Approach	PX	ICD-10-PCS
08CAXZZ	Extirpation of Matter from Right Choroid, External Approach	PX	ICD-10-PCS
08CB0ZZ	Extirpation of Matter from Left Choroid, Open Approach	PX	ICD-10-PCS
08CB3ZZ	Extirpation of Matter from Left Choroid, Percutaneous Approach	PX	ICD-10-PCS
08CBXZZ	Extirpation of Matter from Left Choroid, External Approach	PX	ICD-10-PCS
08CC3ZZ	Extirpation of Matter from Right Iris, Percutaneous Approach	PX	ICD-10-PCS
08CCXZZ	Extirpation of Matter from Right Iris, External Approach	PX	ICD-10-PCS
08CD3ZZ	Extirpation of Matter from Left Iris, Percutaneous Approach	PX	ICD-10-PCS
08CDXZZ	Extirpation of Matter from Left Iris, External Approach	PX	ICD-10-PCS
08CE3ZZ	Extirpation of Matter from Right Retina, Percutaneous Approach	PX	ICD-10-PCS
08CEXZZ	Extirpation of Matter from Right Retina, External Approach	PX	ICD-10-PCS
08CF3ZZ	Extirpation of Matter from Left Retina, Percutaneous Approach	PX	ICD-10-PCS
08CFXZZ	Extirpation of Matter from Left Retina, External Approach	PX	ICD-10-PCS
08CG3ZZ	Extirpation of Matter from Right Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
08CGXZZ	Extirpation of Matter from Right Retinal Vessel, External Approach	PX	ICD-10-PCS
08CH3ZZ	Extirpation of Matter from Left Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
08CHXZZ	Extirpation of Matter from Left Retinal Vessel, External Approach	PX	ICD-10-PCS
08CJ3ZZ	Extirpation of Matter from Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08CJXZZ	Extirpation of Matter from Right Lens, External Approach	PX	ICD-10-PCS
08CK3ZZ	Extirpation of Matter from Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08CKXZZ	Extirpation of Matter from Left Lens, External Approach	PX	ICD-10-PCS
08CL0ZZ	Extirpation of Matter from Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08CL3ZZ	Extirpation of Matter from Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08CLXZZ	Extirpation of Matter from Right Extraocular Muscle, External Approach	PX	ICD-10-PCS
08CM0ZZ	Extirpation of Matter from Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08CM3ZZ	Extirpation of Matter from Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08CMXZZ	Extirpation of Matter from Left Extraocular Muscle, External Approach	PX	ICD-10-PCS
08CV0ZZ	Extirpation of Matter from Right Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08CV3ZZ	Extirpation of Matter from Right Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08CVXZZ	Extirpation of Matter from Right Lacrimal Gland, External Approach	PX	ICD-10-PCS
08CW0ZZ	Extirpation of Matter from Left Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08CW3ZZ	Extirpation of Matter from Left Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08CWXZZ	Extirpation of Matter from Left Lacrimal Gland, External Approach	PX	ICD-10-PCS
08CX0ZZ	Extirpation of Matter from Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08CX3ZZ	Extirpation of Matter from Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08CX7ZZ	Extirpation of Matter from Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08CX8ZZ	Extirpation of Matter from Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08CY0ZZ	Extirpation of Matter from Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08CY3ZZ	Extirpation of Matter from Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08CY7ZZ	Extirpation of Matter from Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08CY8ZZ	Extirpation of Matter from Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08D8XZZ	Extraction of Right Cornea, External Approach	PX	ICD-10-PCS
08D9XZZ	Extraction of Left Cornea, External Approach	PX	ICD-10-PCS
08DJ3ZZ	Extraction of Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08DK3ZZ	Extraction of Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08F43ZZ	Fragmentation in Right Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08F53ZZ	Fragmentation in Left Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08H005Z	Insertion of Epiretinal Visual Prosthesis into Right Eye, Open Approach	PX	ICD-10-PCS
08H00YZ	Insertion of Other Device into Right Eye, Open Approach	PX	ICD-10-PCS
08H031Z	Insertion of Radioactive Element into Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08H033Z	Insertion of Infusion Device into Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08H03YZ	Insertion of Other Device into Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08H0X3Z	Insertion of Infusion Device into Right Eye, External Approach	PX	ICD-10-PCS
08H105Z	Insertion of Epiretinal Visual Prosthesis into Left Eye, Open Approach	PX	ICD-10-PCS
08H10YZ	Insertion of Other Device into Left Eye, Open Approach	PX	ICD-10-PCS
08H131Z	Insertion of Radioactive Element into Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08H133Z	Insertion of Infusion Device into Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08H13YZ	Insertion of Other Device into Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08H1X3Z	Insertion of Infusion Device into Left Eye, External Approach	PX	ICD-10-PCS
08LX0CZ	Occlusion of Right Lacrimal Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
08LX0DZ	Occlusion of Right Lacrimal Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
08LX0ZZ	Occlusion of Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08LX3CZ	Occlusion of Right Lacrimal Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
08LX3DZ	Occlusion of Right Lacrimal Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
08LX3ZZ	Occlusion of Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08LX7DZ	Occlusion of Right Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
08LX7ZZ	Occlusion of Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08LX8DZ	Occlusion of Right Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08LX8ZZ	Occlusion of Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08LY0CZ	Occlusion of Left Lacrimal Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
08LY0DZ	Occlusion of Left Lacrimal Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
08LY0ZZ	Occlusion of Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08LY3CZ	Occlusion of Left Lacrimal Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08LY3DZ	Occlusion of Left Lacrimal Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
08LY3ZZ	Occlusion of Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08LY7DZ	Occlusion of Left Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
08LY7ZZ	Occlusion of Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08LY8DZ	Occlusion of Left Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08LY8ZZ	Occlusion of Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08MNXZZ	Reattachment of Right Upper Eyelid, External Approach	PX	ICD-10-PCS
08MPXZZ	Reattachment of Left Upper Eyelid, External Approach	PX	ICD-10-PCS
08MQXZZ	Reattachment of Right Lower Eyelid, External Approach	PX	ICD-10-PCS
08MRXZZ	Reattachment of Left Lower Eyelid, External Approach	PX	ICD-10-PCS
08N0XZZ	Release Right Eye, External Approach	PX	ICD-10-PCS
08N1XZZ	Release Left Eye, External Approach	PX	ICD-10-PCS
08N23ZZ	Release Right Anterior Chamber, Percutaneous Approach	PX	ICD-10-PCS
08N33ZZ	Release Left Anterior Chamber, Percutaneous Approach	PX	ICD-10-PCS
08N43ZZ	Release Right Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08N53ZZ	Release Left Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08N6XZZ	Release Right Sclera, External Approach	PX	ICD-10-PCS
08N7XZZ	Release Left Sclera, External Approach	PX	ICD-10-PCS
08N8XZZ	Release Right Cornea, External Approach	PX	ICD-10-PCS
08N9XZZ	Release Left Cornea, External Approach	PX	ICD-10-PCS
08NA0ZZ	Release Right Choroid, Open Approach	PX	ICD-10-PCS
08NA3ZZ	Release Right Choroid, Percutaneous Approach	PX	ICD-10-PCS
08NB0ZZ	Release Left Choroid, Open Approach	PX	ICD-10-PCS
08NB3ZZ	Release Left Choroid, Percutaneous Approach	PX	ICD-10-PCS
08NC3ZZ	Release Right Iris, Percutaneous Approach	PX	ICD-10-PCS
08ND3ZZ	Release Left Iris, Percutaneous Approach	PX	ICD-10-PCS
08NE3ZZ	Release Right Retina, Percutaneous Approach	PX	ICD-10-PCS
08NF3ZZ	Release Left Retina, Percutaneous Approach	PX	ICD-10-PCS
08NG3ZZ	Release Right Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
08NH3ZZ	Release Left Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
08NJ3ZZ	Release Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08NK3ZZ	Release Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08NL0ZZ	Release Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08NL3ZZ	Release Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08NM0ZZ	Release Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08NM3ZZ	Release Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08NN0ZZ	Release Right Upper Eyelid, Open Approach	PX	ICD-10-PCS
08NN3ZZ	Release Right Upper Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08NNXZZ	Release Right Upper Eyelid, External Approach	PX	ICD-10-PCS
08NP0ZZ	Release Left Upper Eyelid, Open Approach	PX	ICD-10-PCS
08NP3ZZ	Release Left Upper Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08NPXZZ	Release Left Upper Eyelid, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08NQ0ZZ	Release Right Lower Eyelid, Open Approach	PX	ICD-10-PCS
08NQ3ZZ	Release Right Lower Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08NQXZZ	Release Right Lower Eyelid, External Approach	PX	ICD-10-PCS
08NR0ZZ	Release Left Lower Eyelid, Open Approach	PX	ICD-10-PCS
08NR3ZZ	Release Left Lower Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08NRXZZ	Release Left Lower Eyelid, External Approach	PX	ICD-10-PCS
08NSXZZ	Release Right Conjunctiva, External Approach	PX	ICD-10-PCS
08NTXZZ	Release Left Conjunctiva, External Approach	PX	ICD-10-PCS
08NV0ZZ	Release Right Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08NV3ZZ	Release Right Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08NW0ZZ	Release Left Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08NW3ZZ	Release Left Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08NX0ZZ	Release Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08NX3ZZ	Release Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08NX7ZZ	Release Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08NX8ZZ	Release Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08NY0ZZ	Release Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08NY3ZZ	Release Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08NY7ZZ	Release Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08NY8ZZ	Release Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08P000Z	Removal of Drainage Device from Right Eye, Open Approach	PX	ICD-10-PCS
08P001Z	Removal of Radioactive Element from Right Eye, Open Approach	PX	ICD-10-PCS
08P003Z	Removal of Infusion Device from Right Eye, Open Approach	PX	ICD-10-PCS
08P007Z	Removal of Autologous Tissue Substitute from Right Eye, Open Approach	PX	ICD-10-PCS
08P00CZ	Removal of Extraluminal Device from Right Eye, Open Approach	PX	ICD-10-PCS
08P00DZ	Removal of Intraluminal Device from Right Eye, Open Approach	PX	ICD-10-PCS
08P00JZ	Removal of Synthetic Substitute from Right Eye, Open Approach	PX	ICD-10-PCS
08P00KZ	Removal of Nonautologous Tissue Substitute from Right Eye, Open Approach	PX	ICD-10-PCS
08P00YZ	Removal of Other Device from Right Eye, Open Approach	PX	ICD-10-PCS
08P030Z	Removal of Drainage Device from Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08P031Z	Removal of Radioactive Element from Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08P033Z	Removal of Infusion Device from Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08P037Z	Removal of Autologous Tissue Substitute from Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08P03CZ	Removal of Extraluminal Device from Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08P03DZ	Removal of Intraluminal Device from Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08P03JZ	Removal of Synthetic Substitute from Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08P03KZ	Removal of Nonautologous Tissue Substitute from Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08P03YZ	Removal of Other Device from Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08P071Z	Removal of Radioactive Element from Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08P077Z	Removal of Autologous Tissue Substitute from Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08P07CZ	Removal of Extraluminal Device from Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08P07JZ	Removal of Synthetic Substitute from Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08P07KZ	Removal of Nonautologous Tissue Substitute from Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08P081Z	Removal of Radioactive Element from Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08P087Z	Removal of Autologous Tissue Substitute from Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08P08CZ	Removal of Extraluminal Device from Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08P08JZ	Removal of Synthetic Substitute from Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08P08KZ	Removal of Nonautologous Tissue Substitute from Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08P0X7Z	Removal of Autologous Tissue Substitute from Right Eye, External Approach	PX	ICD-10-PCS
08P0XKZ	Removal of Nonautologous Tissue Substitute from Right Eye, External Approach	PX	ICD-10-PCS
08P100Z	Removal of Drainage Device from Left Eye, Open Approach	PX	ICD-10-PCS
08P101Z	Removal of Radioactive Element from Left Eye, Open Approach	PX	ICD-10-PCS
08P103Z	Removal of Infusion Device from Left Eye, Open Approach	PX	ICD-10-PCS
08P107Z	Removal of Autologous Tissue Substitute from Left Eye, Open Approach	PX	ICD-10-PCS
08P10CZ	Removal of Extraluminal Device from Left Eye, Open Approach	PX	ICD-10-PCS
08P10DZ	Removal of Intraluminal Device from Left Eye, Open Approach	PX	ICD-10-PCS
08P10JZ	Removal of Synthetic Substitute from Left Eye, Open Approach	PX	ICD-10-PCS
08P10KZ	Removal of Nonautologous Tissue Substitute from Left Eye, Open Approach	PX	ICD-10-PCS
08P10YZ	Removal of Other Device from Left Eye, Open Approach	PX	ICD-10-PCS
08P130Z	Removal of Drainage Device from Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08P131Z	Removal of Radioactive Element from Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08P133Z	Removal of Infusion Device from Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08P137Z	Removal of Autologous Tissue Substitute from Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08P13CZ	Removal of Extraluminal Device from Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08P13DZ	Removal of Intraluminal Device from Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08P13JZ	Removal of Synthetic Substitute from Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08P13KZ	Removal of Nonautologous Tissue Substitute from Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08P13YZ	Removal of Other Device from Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08P171Z	Removal of Radioactive Element from Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08P177Z	Removal of Autologous Tissue Substitute from Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08P17CZ	Removal of Extraluminal Device from Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08P17JZ	Removal of Synthetic Substitute from Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08P17KZ	Removal of Nonautologous Tissue Substitute from Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08P181Z	Removal of Radioactive Element from Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08P187Z	Removal of Autologous Tissue Substitute from Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08P18CZ	Removal of Extraluminal Device from Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08P18JZ	Removal of Synthetic Substitute from Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08P18KZ	Removal of Nonautologous Tissue Substitute from Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08P1X7Z	Removal of Autologous Tissue Substitute from Left Eye, External Approach	PX	ICD-10-PCS
08P1XKZ	Removal of Nonautologous Tissue Substitute from Left Eye, External Approach	PX	ICD-10-PCS
08PJ3JZ	Removal of Synthetic Substitute from Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08PJ3YZ	Removal of Other Device from Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08PK3JZ	Removal of Synthetic Substitute from Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08PK3YZ	Removal of Other Device from Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08PL00Z	Removal of Drainage Device from Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08PL07Z	Removal of Autologous Tissue Substitute from Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08PL0JZ	Removal of Synthetic Substitute from Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08PL0KZ	Removal of Nonautologous Tissue Substitute from Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08PL0YZ	Removal of Other Device from Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08PL30Z	Removal of Drainage Device from Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08PL37Z	Removal of Autologous Tissue Substitute from Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08PL3JZ	Removal of Synthetic Substitute from Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08PL3KZ	Removal of Nonautologous Tissue Substitute from Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08PL3YZ	Removal of Other Device from Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08PM00Z	Removal of Drainage Device from Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08PM07Z	Removal of Autologous Tissue Substitute from Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08PM0JZ	Removal of Synthetic Substitute from Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08PM0KZ	Removal of Nonautologous Tissue Substitute from Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08PM0YZ	Removal of Other Device from Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08PM30Z	Removal of Drainage Device from Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08PM37Z	Removal of Autologous Tissue Substitute from Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08PM3JZ	Removal of Synthetic Substitute from Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08PM3KZ	Removal of Nonautologous Tissue Substitute from Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08PM3YZ	Removal of Other Device from Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08Q0XZZ	Repair Right Eye, External Approach	PX	ICD-10-PCS
08Q1XZZ	Repair Left Eye, External Approach	PX	ICD-10-PCS
08Q23ZZ	Repair Right Anterior Chamber, Percutaneous Approach	PX	ICD-10-PCS
08Q33ZZ	Repair Left Anterior Chamber, Percutaneous Approach	PX	ICD-10-PCS
08Q43ZZ	Repair Right Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08Q53ZZ	Repair Left Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08Q6XZZ	Repair Right Sclera, External Approach	PX	ICD-10-PCS
08Q7XZZ	Repair Left Sclera, External Approach	PX	ICD-10-PCS
08Q8XZZ	Repair Right Cornea, External Approach	PX	ICD-10-PCS
08Q9XZZ	Repair Left Cornea, External Approach	PX	ICD-10-PCS
08QA0ZZ	Repair Right Choroid, Open Approach	PX	ICD-10-PCS
08QA3ZZ	Repair Right Choroid, Percutaneous Approach	PX	ICD-10-PCS
08QB0ZZ	Repair Left Choroid, Open Approach	PX	ICD-10-PCS
08QB3ZZ	Repair Left Choroid, Percutaneous Approach	PX	ICD-10-PCS
08QC3ZZ	Repair Right Iris, Percutaneous Approach	PX	ICD-10-PCS
08QD3ZZ	Repair Left Iris, Percutaneous Approach	PX	ICD-10-PCS
08QE3ZZ	Repair Right Retina, Percutaneous Approach	PX	ICD-10-PCS
08QF3ZZ	Repair Left Retina, Percutaneous Approach	PX	ICD-10-PCS
08QG3ZZ	Repair Right Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
08QH3ZZ	Repair Left Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
08QJ3ZZ	Repair Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08QK3ZZ	Repair Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08QL0ZZ	Repair Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08QL3ZZ	Repair Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08QM0ZZ	Repair Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08QM3ZZ	Repair Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08QSXZZ	Repair Right Conjunctiva, External Approach	PX	ICD-10-PCS
08QTXZZ	Repair Left Conjunctiva, External Approach	PX	ICD-10-PCS
08QV0ZZ	Repair Right Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08QV3ZZ	Repair Right Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08QW0ZZ	Repair Left Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08QW3ZZ	Repair Left Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08QX0ZZ	Repair Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08QX3ZZ	Repair Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08QX7ZZ	Repair Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08QX8ZZ	Repair Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08QY0ZZ	Repair Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08QY3ZZ	Repair Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08QY7ZZ	Repair Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08QY8ZZ	Repair Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08R007Z	Replacement of Right Eye with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08R00JZ	Replacement of Right Eye with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08R00KZ	Replacement of Right Eye with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08R037Z	Replacement of Right Eye with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R03JZ	Replacement of Right Eye with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R03KZ	Replacement of Right Eye with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R107Z	Replacement of Left Eye with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08R10JZ	Replacement of Left Eye with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08R10KZ	Replacement of Left Eye with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08R137Z	Replacement of Left Eye with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R13JZ	Replacement of Left Eye with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R13KZ	Replacement of Left Eye with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R437Z	Replacement of Right Vitreous with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R43JZ	Replacement of Right Vitreous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R43KZ	Replacement of Right Vitreous with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R537Z	Replacement of Left Vitreous with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R53JZ	Replacement of Left Vitreous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R53KZ	Replacement of Left Vitreous with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R6X7Z	Replacement of Right Sclera with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08R6XJZ	Replacement of Right Sclera with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08R6XKZ	Replacement of Right Sclera with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08R7X7Z	Replacement of Left Sclera with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08R7XJZ	Replacement of Left Sclera with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08R7XKZ	Replacement of Left Sclera with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08R837Z	Replacement of Right Cornea with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R83JZ	Replacement of Right Cornea with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R83KZ	Replacement of Right Cornea with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R8X7Z	Replacement of Right Cornea with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08R8XJZ	Replacement of Right Cornea with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08R8XKZ	Replacement of Right Cornea with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08R937Z	Replacement of Left Cornea with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R93JZ	Replacement of Left Cornea with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R93KZ	Replacement of Left Cornea with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08R9X7Z	Replacement of Left Cornea with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08R9XJZ	Replacement of Left Cornea with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08R9XKZ	Replacement of Left Cornea with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RA07Z	Replacement of Right Choroid with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RA0JZ	Replacement of Right Choroid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08RA0KZ	Replacement of Right Choroid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RA37Z	Replacement of Right Choroid with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RA3JZ	Replacement of Right Choroid with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RA3KZ	Replacement of Right Choroid with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RB07Z	Replacement of Left Choroid with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RB0JZ	Replacement of Left Choroid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08RB0KZ	Replacement of Left Choroid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RB37Z	Replacement of Left Choroid with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RB3JZ	Replacement of Left Choroid with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RB3KZ	Replacement of Left Choroid with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RC37Z	Replacement of Right Iris with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RC3JZ	Replacement of Right Iris with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RC3KZ	Replacement of Right Iris with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RD37Z	Replacement of Left Iris with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RD3JZ	Replacement of Left Iris with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RD3KZ	Replacement of Left Iris with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RG37Z	Replacement of Right Retinal Vessel with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RG3JZ	Replacement of Right Retinal Vessel with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08RG3KZ	Replacement of Right Retinal Vessel with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RH37Z	Replacement of Left Retinal Vessel with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RH3JZ	Replacement of Left Retinal Vessel with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RH3KZ	Replacement of Left Retinal Vessel with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RJ30Z	Replacement of Right Lens with Intraocular Telescope, Percutaneous Approach	PX	ICD-10-PCS
08RJ37Z	Replacement of Right Lens with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RJ3JZ	Replacement of Right Lens with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RJ3KZ	Replacement of Right Lens with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RK30Z	Replacement of Left Lens with Intraocular Telescope, Percutaneous Approach	PX	ICD-10-PCS
08RK37Z	Replacement of Left Lens with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RK3JZ	Replacement of Left Lens with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RK3KZ	Replacement of Left Lens with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RN07Z	Replacement of Right Upper Eyelid with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RN0JZ	Replacement of Right Upper Eyelid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08RN0KZ	Replacement of Right Upper Eyelid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RN37Z	Replacement of Right Upper Eyelid with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RN3JZ	Replacement of Right Upper Eyelid with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RN3KZ	Replacement of Right Upper Eyelid with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RNX7Z	Replacement of Right Upper Eyelid with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RNXJZ	Replacement of Right Upper Eyelid with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08RNXKZ	Replacement of Right Upper Eyelid with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RP07Z	Replacement of Left Upper Eyelid with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RP0JZ	Replacement of Left Upper Eyelid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08RP0KZ	Replacement of Left Upper Eyelid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RP37Z	Replacement of Left Upper Eyelid with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RP3JZ	Replacement of Left Upper Eyelid with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08RP3KZ	Replacement of Left Upper Eyelid with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RPX7Z	Replacement of Left Upper Eyelid with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RPXJZ	Replacement of Left Upper Eyelid with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08RPXKZ	Replacement of Left Upper Eyelid with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RQ07Z	Replacement of Right Lower Eyelid with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RQ0JZ	Replacement of Right Lower Eyelid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08RQ0KZ	Replacement of Right Lower Eyelid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RQ37Z	Replacement of Right Lower Eyelid with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RQ3JZ	Replacement of Right Lower Eyelid with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RQ3KZ	Replacement of Right Lower Eyelid with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RQX7Z	Replacement of Right Lower Eyelid with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RQXJZ	Replacement of Right Lower Eyelid with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08RQXKZ	Replacement of Right Lower Eyelid with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RR07Z	Replacement of Left Lower Eyelid with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RR0JZ	Replacement of Left Lower Eyelid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08RR0KZ	Replacement of Left Lower Eyelid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RR37Z	Replacement of Left Lower Eyelid with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RR3JZ	Replacement of Left Lower Eyelid with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RR3KZ	Replacement of Left Lower Eyelid with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RRX7Z	Replacement of Left Lower Eyelid with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RRXJZ	Replacement of Left Lower Eyelid with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08RRXKZ	Replacement of Left Lower Eyelid with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RSX7Z	Replacement of Right Conjunctiva with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RSXJZ	Replacement of Right Conjunctiva with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08RSXKZ	Replacement of Right Conjunctiva with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08RTX7Z	Replacement of Left Conjunctiva with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RTXJZ	Replacement of Left Conjunctiva with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08RTXKZ	Replacement of Left Conjunctiva with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08RX07Z	Replacement of Right Lacrimal Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RX0JZ	Replacement of Right Lacrimal Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08RX0KZ	Replacement of Right Lacrimal Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RX37Z	Replacement of Right Lacrimal Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RX3JZ	Replacement of Right Lacrimal Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RX3KZ	Replacement of Right Lacrimal Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RX77Z	Replacement of Right Lacrimal Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
08RX7JZ	Replacement of Right Lacrimal Duct with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
08RX7KZ	Replacement of Right Lacrimal Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
08RX87Z	Replacement of Right Lacrimal Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08RX8JZ	Replacement of Right Lacrimal Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08RX8KZ	Replacement of Right Lacrimal Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08RY07Z	Replacement of Left Lacrimal Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RY0JZ	Replacement of Left Lacrimal Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08RY0KZ	Replacement of Left Lacrimal Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08RY37Z	Replacement of Left Lacrimal Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RY3JZ	Replacement of Left Lacrimal Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RY3KZ	Replacement of Left Lacrimal Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08RY77Z	Replacement of Left Lacrimal Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
08RY7JZ	Replacement of Left Lacrimal Duct with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
08RY7KZ	Replacement of Left Lacrimal Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08RY87Z	Replacement of Left Lacrimal Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08RY8JZ	Replacement of Left Lacrimal Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08RY8KZ	Replacement of Left Lacrimal Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08SC3ZZ	Reposition Right Iris, Percutaneous Approach	PX	ICD-10-PCS
08SD3ZZ	Reposition Left Iris, Percutaneous Approach	PX	ICD-10-PCS
08SG3ZZ	Reposition Right Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
08SH3ZZ	Reposition Left Retinal Vessel, Percutaneous Approach	PX	ICD-10-PCS
08SJ3ZZ	Reposition Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08SK3ZZ	Reposition Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08SL0ZZ	Reposition Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08SL3ZZ	Reposition Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08SM0ZZ	Reposition Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08SM3ZZ	Reposition Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08SN0ZZ	Reposition Right Upper Eyelid, Open Approach	PX	ICD-10-PCS
08SN3ZZ	Reposition Right Upper Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08SNXZZ	Reposition Right Upper Eyelid, External Approach	PX	ICD-10-PCS
08SP0ZZ	Reposition Left Upper Eyelid, Open Approach	PX	ICD-10-PCS
08SP3ZZ	Reposition Left Upper Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08SPXZZ	Reposition Left Upper Eyelid, External Approach	PX	ICD-10-PCS
08SQ0ZZ	Reposition Right Lower Eyelid, Open Approach	PX	ICD-10-PCS
08SQ3ZZ	Reposition Right Lower Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08SQXZZ	Reposition Right Lower Eyelid, External Approach	PX	ICD-10-PCS
08SR0ZZ	Reposition Left Lower Eyelid, Open Approach	PX	ICD-10-PCS
08SR3ZZ	Reposition Left Lower Eyelid, Percutaneous Approach	PX	ICD-10-PCS
08SRXZZ	Reposition Left Lower Eyelid, External Approach	PX	ICD-10-PCS
08SV0ZZ	Reposition Right Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08SV3ZZ	Reposition Right Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08SW0ZZ	Reposition Left Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08SW3ZZ	Reposition Left Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08SX0ZZ	Reposition Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08SX3ZZ	Reposition Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08SX7ZZ	Reposition Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08SX8ZZ	Reposition Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08SY0ZZ	Reposition Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08SY3ZZ	Reposition Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08SY7ZZ	Reposition Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08SY8ZZ	Reposition Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08T0XZZ	Resection of Right Eye, External Approach	PX	ICD-10-PCS
08T1XZZ	Resection of Left Eye, External Approach	PX	ICD-10-PCS
08T43ZZ	Resection of Right Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08T53ZZ	Resection of Left Vitreous, Percutaneous Approach	PX	ICD-10-PCS
08T8XZZ	Resection of Right Cornea, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08T9XZZ	Resection of Left Cornea, External Approach	PX	ICD-10-PCS
08TC3ZZ	Resection of Right Iris, Percutaneous Approach	PX	ICD-10-PCS
08TD3ZZ	Resection of Left Iris, Percutaneous Approach	PX	ICD-10-PCS
08TJ3ZZ	Resection of Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08TK3ZZ	Resection of Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08TL0ZZ	Resection of Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08TL3ZZ	Resection of Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08TM0ZZ	Resection of Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08TM3ZZ	Resection of Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08TN0ZZ	Resection of Right Upper Eyelid, Open Approach	PX	ICD-10-PCS
08TNXZZ	Resection of Right Upper Eyelid, External Approach	PX	ICD-10-PCS
08TP0ZZ	Resection of Left Upper Eyelid, Open Approach	PX	ICD-10-PCS
08TPXZZ	Resection of Left Upper Eyelid, External Approach	PX	ICD-10-PCS
08TQ0ZZ	Resection of Right Lower Eyelid, Open Approach	PX	ICD-10-PCS
08TQXZZ	Resection of Right Lower Eyelid, External Approach	PX	ICD-10-PCS
08TR0ZZ	Resection of Left Lower Eyelid, Open Approach	PX	ICD-10-PCS
08TRXZZ	Resection of Left Lower Eyelid, External Approach	PX	ICD-10-PCS
08TV0ZZ	Resection of Right Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08TV3ZZ	Resection of Right Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08TW0ZZ	Resection of Left Lacrimal Gland, Open Approach	PX	ICD-10-PCS
08TW3ZZ	Resection of Left Lacrimal Gland, Percutaneous Approach	PX	ICD-10-PCS
08TX0ZZ	Resection of Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08TX3ZZ	Resection of Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08TX7ZZ	Resection of Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08TX8ZZ	Resection of Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08TY0ZZ	Resection of Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08TY3ZZ	Resection of Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08TY7ZZ	Resection of Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08TY8ZZ	Resection of Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08U007Z	Supplement of Right Eye with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08U00JZ	Supplement of Right Eye with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08U00KZ	Supplement of Right Eye with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08U037Z	Supplement of Right Eye with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U03JZ	Supplement of Right Eye with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U03KZ	Supplement of Right Eye with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U107Z	Supplement of Left Eye with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08U10JZ	Supplement of Left Eye with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08U10KZ	Supplement of Left Eye with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08U137Z	Supplement of Left Eye with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U13JZ	Supplement of Left Eye with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U13KZ	Supplement of Left Eye with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08U807Z	Supplement Right Cornea with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08U80JZ	Supplement Right Cornea with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08U80KZ	Supplement Right Cornea with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08U837Z	Supplement Right Cornea with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U83JZ	Supplement Right Cornea with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U83KZ	Supplement Right Cornea with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U8X7Z	Supplement Right Cornea with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08U8XJZ	Supplement Right Cornea with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08U8XKZ	Supplement Right Cornea with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08U907Z	Supplement Left Cornea with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08U90JZ	Supplement Left Cornea with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08U90KZ	Supplement Left Cornea with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08U937Z	Supplement Left Cornea with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U93JZ	Supplement Left Cornea with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U93KZ	Supplement Left Cornea with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08U9X7Z	Supplement Left Cornea with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08U9XJZ	Supplement Left Cornea with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08U9XKZ	Supplement Left Cornea with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08UC07Z	Supplement Right Iris with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UC0JZ	Supplement Right Iris with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UC0KZ	Supplement Right Iris with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UC37Z	Supplement Right Iris with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UC3JZ	Supplement Right Iris with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UC3KZ	Supplement Right Iris with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UD07Z	Supplement Left Iris with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UD0JZ	Supplement Left Iris with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UD0KZ	Supplement Left Iris with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UD37Z	Supplement Left Iris with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UD3JZ	Supplement Left Iris with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UD3KZ	Supplement Left Iris with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UE07Z	Supplement Right Retina with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UE0JZ	Supplement Right Retina with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UE0KZ	Supplement Right Retina with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08UE37Z	Supplement Right Retina with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UE3JZ	Supplement Right Retina with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UE3KZ	Supplement Right Retina with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UF07Z	Supplement Left Retina with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UF0JZ	Supplement Left Retina with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UF0KZ	Supplement Left Retina with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UF37Z	Supplement Left Retina with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UF3JZ	Supplement Left Retina with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UF3KZ	Supplement Left Retina with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UG07Z	Supplement Right Retinal Vessel with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UG0JZ	Supplement Right Retinal Vessel with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UG0KZ	Supplement Right Retinal Vessel with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UG37Z	Supplement Right Retinal Vessel with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UG3JZ	Supplement Right Retinal Vessel with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UG3KZ	Supplement Right Retinal Vessel with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UH07Z	Supplement Left Retinal Vessel with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UH0JZ	Supplement Left Retinal Vessel with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UH0KZ	Supplement Left Retinal Vessel with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UH37Z	Supplement Left Retinal Vessel with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UH3JZ	Supplement Left Retinal Vessel with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UH3KZ	Supplement Left Retinal Vessel with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UL07Z	Supplement Right Extraocular Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UL0JZ	Supplement Right Extraocular Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UL0KZ	Supplement Right Extraocular Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UL37Z	Supplement Right Extraocular Muscle with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UL3JZ	Supplement Right Extraocular Muscle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08UL3KZ	Supplement Right Extraocular Muscle with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UM07Z	Supplement Left Extraocular Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UM0JZ	Supplement Left Extraocular Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UM0KZ	Supplement Left Extraocular Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UM37Z	Supplement Left Extraocular Muscle with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UM3JZ	Supplement Left Extraocular Muscle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UM3KZ	Supplement Left Extraocular Muscle with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UN07Z	Supplement Right Upper Eyelid with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UN0JZ	Supplement Right Upper Eyelid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UN0KZ	Supplement Right Upper Eyelid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UN37Z	Supplement Right Upper Eyelid with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UN3JZ	Supplement Right Upper Eyelid with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UN3KZ	Supplement Right Upper Eyelid with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UNX7Z	Supplement Right Upper Eyelid with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08UNXJZ	Supplement Right Upper Eyelid with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08UNXKZ	Supplement Right Upper Eyelid with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08UP07Z	Supplement Left Upper Eyelid with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UP0JZ	Supplement Left Upper Eyelid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UP0KZ	Supplement Left Upper Eyelid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UP37Z	Supplement Left Upper Eyelid with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UP3JZ	Supplement Left Upper Eyelid with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UP3KZ	Supplement Left Upper Eyelid with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UPX7Z	Supplement Left Upper Eyelid with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08UPXJZ	Supplement Left Upper Eyelid with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08UPXKZ	Supplement Left Upper Eyelid with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08UQ07Z	Supplement Right Lower Eyelid with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UQ0JZ	Supplement Right Lower Eyelid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UQ0KZ	Supplement Right Lower Eyelid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UQ37Z	Supplement Right Lower Eyelid with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UQ3JZ	Supplement Right Lower Eyelid with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UQ3KZ	Supplement Right Lower Eyelid with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UQX7Z	Supplement Right Lower Eyelid with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08UQXJZ	Supplement Right Lower Eyelid with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08UQXKZ	Supplement Right Lower Eyelid with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08UR07Z	Supplement Left Lower Eyelid with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UR0JZ	Supplement Left Lower Eyelid with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UR0KZ	Supplement Left Lower Eyelid with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UR37Z	Supplement Left Lower Eyelid with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UR3JZ	Supplement Left Lower Eyelid with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UR3KZ	Supplement Left Lower Eyelid with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08URX7Z	Supplement Left Lower Eyelid with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08URXJZ	Supplement Left Lower Eyelid with Synthetic Substitute, External Approach	PX	ICD-10-PCS
08URXKZ	Supplement Left Lower Eyelid with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
08UX07Z	Supplement Right Lacrimal Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UX0JZ	Supplement Right Lacrimal Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UX0KZ	Supplement Right Lacrimal Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UX37Z	Supplement Right Lacrimal Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UX3JZ	Supplement Right Lacrimal Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UX3KZ	Supplement Right Lacrimal Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UX77Z	Supplement Right Lacrimal Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08UX7JZ	Supplement Right Lacrimal Duct with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
08UX7KZ	Supplement Right Lacrimal Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
08UX87Z	Supplement Right Lacrimal Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08UX8JZ	Supplement Right Lacrimal Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08UX8KZ	Supplement Right Lacrimal Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08UY07Z	Supplement Left Lacrimal Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UY0JZ	Supplement Left Lacrimal Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
08UY0KZ	Supplement Left Lacrimal Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
08UY37Z	Supplement Left Lacrimal Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UY3JZ	Supplement Left Lacrimal Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UY3KZ	Supplement Left Lacrimal Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
08UY77Z	Supplement Left Lacrimal Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
08UY7JZ	Supplement Left Lacrimal Duct with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
08UY7KZ	Supplement Left Lacrimal Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
08UY87Z	Supplement Left Lacrimal Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08UY8JZ	Supplement Left Lacrimal Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08UY8KZ	Supplement Left Lacrimal Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08VX0CZ	Restriction of Right Lacrimal Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
08VX0DZ	Restriction of Right Lacrimal Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
08VX0ZZ	Restriction of Right Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08VX3CZ	Restriction of Right Lacrimal Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
08VX3DZ	Restriction of Right Lacrimal Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
08VX3ZZ	Restriction of Right Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08VX7DZ	Restriction of Right Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
08VX7ZZ	Restriction of Right Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08VX8DZ	Restriction of Right Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08VX8ZZ	Restriction of Right Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08VY0CZ	Restriction of Left Lacrimal Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
08VY0DZ	Restriction of Left Lacrimal Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
08VY0ZZ	Restriction of Left Lacrimal Duct, Open Approach	PX	ICD-10-PCS
08VY3CZ	Restriction of Left Lacrimal Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
08VY3DZ	Restriction of Left Lacrimal Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
08VY3ZZ	Restriction of Left Lacrimal Duct, Percutaneous Approach	PX	ICD-10-PCS
08VY7DZ	Restriction of Left Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
08VY7ZZ	Restriction of Left Lacrimal Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
08VY8DZ	Restriction of Left Lacrimal Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08VY8ZZ	Restriction of Left Lacrimal Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W000Z	Revision of Drainage Device in Right Eye, Open Approach	PX	ICD-10-PCS
08W003Z	Revision of Infusion Device in Right Eye, Open Approach	PX	ICD-10-PCS
08W007Z	Revision of Autologous Tissue Substitute in Right Eye, Open Approach	PX	ICD-10-PCS
08W00CZ	Revision of Extraluminal Device in Right Eye, Open Approach	PX	ICD-10-PCS
08W00DZ	Revision of Intraluminal Device in Right Eye, Open Approach	PX	ICD-10-PCS
08W00JZ	Revision of Synthetic Substitute in Right Eye, Open Approach	PX	ICD-10-PCS
08W00KZ	Revision of Nonautologous Tissue Substitute in Right Eye, Open Approach	PX	ICD-10-PCS
08W00YZ	Revision of Other Device in Right Eye, Open Approach	PX	ICD-10-PCS
08W030Z	Revision of Drainage Device in Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08W033Z	Revision of Infusion Device in Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08W037Z	Revision of Autologous Tissue Substitute in Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08W03CZ	Revision of Extraluminal Device in Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08W03DZ	Revision of Intraluminal Device in Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08W03JZ	Revision of Synthetic Substitute in Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08W03KZ	Revision of Nonautologous Tissue Substitute in Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08W03YZ	Revision of Other Device in Right Eye, Percutaneous Approach	PX	ICD-10-PCS
08W070Z	Revision of Drainage Device in Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W073Z	Revision of Infusion Device in Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W077Z	Revision of Autologous Tissue Substitute in Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W07CZ	Revision of Extraluminal Device in Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W07DZ	Revision of Intraluminal Device in Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W07JZ	Revision of Synthetic Substitute in Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W07KZ	Revision of Nonautologous Tissue Substitute in Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W07YZ	Revision of Other Device in Right Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08W080Z	Revision of Drainage Device in Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W083Z	Revision of Infusion Device in Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W087Z	Revision of Autologous Tissue Substitute in Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W08CZ	Revision of Extraluminal Device in Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W08DZ	Revision of Intraluminal Device in Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W08JZ	Revision of Synthetic Substitute in Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W08KZ	Revision of Nonautologous Tissue Substitute in Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W08YZ	Revision of Other Device in Right Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W100Z	Revision of Drainage Device in Left Eye, Open Approach	PX	ICD-10-PCS
08W103Z	Revision of Infusion Device in Left Eye, Open Approach	PX	ICD-10-PCS
08W107Z	Revision of Autologous Tissue Substitute in Left Eye, Open Approach	PX	ICD-10-PCS
08W10CZ	Revision of Extraluminal Device in Left Eye, Open Approach	PX	ICD-10-PCS
08W10DZ	Revision of Intraluminal Device in Left Eye, Open Approach	PX	ICD-10-PCS
08W10JZ	Revision of Synthetic Substitute in Left Eye, Open Approach	PX	ICD-10-PCS
08W10KZ	Revision of Nonautologous Tissue Substitute in Left Eye, Open Approach	PX	ICD-10-PCS
08W10YZ	Revision of Other Device in Left Eye, Open Approach	PX	ICD-10-PCS
08W130Z	Revision of Drainage Device in Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08W133Z	Revision of Infusion Device in Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08W137Z	Revision of Autologous Tissue Substitute in Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08W13CZ	Revision of Extraluminal Device in Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08W13DZ	Revision of Intraluminal Device in Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08W13JZ	Revision of Synthetic Substitute in Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08W13KZ	Revision of Nonautologous Tissue Substitute in Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08W13YZ	Revision of Other Device in Left Eye, Percutaneous Approach	PX	ICD-10-PCS
08W170Z	Revision of Drainage Device in Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W173Z	Revision of Infusion Device in Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W177Z	Revision of Autologous Tissue Substitute in Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W17CZ	Revision of Extraluminal Device in Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W17DZ	Revision of Intraluminal Device in Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W17JZ	Revision of Synthetic Substitute in Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W17KZ	Revision of Nonautologous Tissue Substitute in Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W17YZ	Revision of Other Device in Left Eye, Via Natural or Artificial Opening	PX	ICD-10-PCS
08W180Z	Revision of Drainage Device in Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08W183Z	Revision of Infusion Device in Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W187Z	Revision of Autologous Tissue Substitute in Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W18CZ	Revision of Extraluminal Device in Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W18DZ	Revision of Intraluminal Device in Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W18JZ	Revision of Synthetic Substitute in Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W18KZ	Revision of Nonautologous Tissue Substitute in Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08W18YZ	Revision of Other Device in Left Eye, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
08WJ3JZ	Revision of Synthetic Substitute in Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08WJ3YZ	Revision of Other Device in Right Lens, Percutaneous Approach	PX	ICD-10-PCS
08WK3JZ	Revision of Synthetic Substitute in Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08WK3YZ	Revision of Other Device in Left Lens, Percutaneous Approach	PX	ICD-10-PCS
08WL00Z	Revision of Drainage Device in Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08WL07Z	Revision of Autologous Tissue Substitute in Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08WL0JZ	Revision of Synthetic Substitute in Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08WL0KZ	Revision of Nonautologous Tissue Substitute in Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08WL0YZ	Revision of Other Device in Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08WL30Z	Revision of Drainage Device in Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08WL37Z	Revision of Autologous Tissue Substitute in Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08WL3JZ	Revision of Synthetic Substitute in Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08WL3KZ	Revision of Nonautologous Tissue Substitute in Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08WL3YZ	Revision of Other Device in Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08WM00Z	Revision of Drainage Device in Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08WM07Z	Revision of Autologous Tissue Substitute in Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08WM0JZ	Revision of Synthetic Substitute in Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08WM0KZ	Revision of Nonautologous Tissue Substitute in Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08WM0YZ	Revision of Other Device in Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08WM30Z	Revision of Drainage Device in Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08WM37Z	Revision of Autologous Tissue Substitute in Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08WM3JZ	Revision of Synthetic Substitute in Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
08WM3KZ	Revision of Nonautologous Tissue Substitute in Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08WM3YZ	Revision of Other Device in Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08XL0ZZ	Transfer Right Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08XL3ZZ	Transfer Right Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
08XM0ZZ	Transfer Left Extraocular Muscle, Open Approach	PX	ICD-10-PCS
08XM3ZZ	Transfer Left Extraocular Muscle, Percutaneous Approach	PX	ICD-10-PCS
090007Z	Alteration of Right External Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09000JZ	Alteration of Right External Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09000KZ	Alteration of Right External Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09000ZZ	Alteration of Right External Ear, Open Approach	PX	ICD-10-PCS
090037Z	Alteration of Right External Ear with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09003JZ	Alteration of Right External Ear with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09003KZ	Alteration of Right External Ear with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09003ZZ	Alteration of Right External Ear, Percutaneous Approach	PX	ICD-10-PCS
090047Z	Alteration of Right External Ear with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09004JZ	Alteration of Right External Ear with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09004KZ	Alteration of Right External Ear with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09004ZZ	Alteration of Right External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0900X7Z	Alteration of Right External Ear with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0900XJZ	Alteration of Right External Ear with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0900XKZ	Alteration of Right External Ear with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0900XZZ	Alteration of Right External Ear, External Approach	PX	ICD-10-PCS
090107Z	Alteration of Left External Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09010JZ	Alteration of Left External Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09010KZ	Alteration of Left External Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09010ZZ	Alteration of Left External Ear, Open Approach	PX	ICD-10-PCS
090137Z	Alteration of Left External Ear with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09013JZ	Alteration of Left External Ear with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09013KZ	Alteration of Left External Ear with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09013ZZ	Alteration of Left External Ear, Percutaneous Approach	PX	ICD-10-PCS
090147Z	Alteration of Left External Ear with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09014JZ	Alteration of Left External Ear with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09014KZ	Alteration of Left External Ear with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09014ZZ	Alteration of Left External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0901X7Z	Alteration of Left External Ear with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0901XJZ	Alteration of Left External Ear with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0901XKZ	Alteration of Left External Ear with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0901XZZ	Alteration of Left External Ear, External Approach	PX	ICD-10-PCS
090207Z	Alteration of Bilateral External Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09020JZ	Alteration of Bilateral External Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09020KZ	Alteration of Bilateral External Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09020ZZ	Alteration of Bilateral External Ear, Open Approach	PX	ICD-10-PCS
090237Z	Alteration of Bilateral External Ear with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09023JZ	Alteration of Bilateral External Ear with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09023KZ	Alteration of Bilateral External Ear with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09023ZZ	Alteration of Bilateral External Ear, Percutaneous Approach	PX	ICD-10-PCS
090247Z	Alteration of Bilateral External Ear with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09024JZ	Alteration of Bilateral External Ear with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09024KZ	Alteration of Bilateral External Ear with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09024ZZ	Alteration of Bilateral External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0902X7Z	Alteration of Bilateral External Ear with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0902XJZ	Alteration of Bilateral External Ear with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0902XKZ	Alteration of Bilateral External Ear with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0902XZZ	Alteration of Bilateral External Ear, External Approach	PX	ICD-10-PCS
090K07Z	Alteration of Nasal Mucosa and Soft Tissue with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
090K0JZ	Alteration of Nasal Mucosa and Soft Tissue with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
090K0KZ	Alteration of Nasal Mucosa and Soft Tissue with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
090K0ZZ	Alteration of Nasal Mucosa and Soft Tissue, Open Approach	PX	ICD-10-PCS
090K37Z	Alteration of Nasal Mucosa and Soft Tissue with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
090K3JZ	Alteration of Nasal Mucosa and Soft Tissue with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
090K3KZ	Alteration of Nasal Mucosa and Soft Tissue with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
090K3ZZ	Alteration of Nasal Mucosa and Soft Tissue, Percutaneous Approach	PX	ICD-10-PCS
090K47Z	Alteration of Nasal Mucosa and Soft Tissue with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
090K4JZ	Alteration of Nasal Mucosa and Soft Tissue with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
090K4KZ	Alteration of Nasal Mucosa and Soft Tissue with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
090K4ZZ	Alteration of Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
090KX7Z	Alteration of Nasal Mucosa and Soft Tissue with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
090KXJZ	Alteration of Nasal Mucosa and Soft Tissue with Synthetic Substitute, External Approach	PX	ICD-10-PCS
090KXKZ	Alteration of Nasal Mucosa and Soft Tissue with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
090KXZZ	Alteration of Nasal Mucosa and Soft Tissue, External Approach	PX	ICD-10-PCS
091D070	Bypass Right Inner Ear to Endolymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
091D0J0	Bypass Right Inner Ear to Endolymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
091D0K0	Bypass Right Inner Ear to Endolymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
091D0Z0	Bypass Right Inner Ear to Endolymphatic, Open Approach	PX	ICD-10-PCS
091E070	Bypass Left Inner Ear to Endolymphatic with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
091E0J0	Bypass Left Inner Ear to Endolymphatic with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
091E0K0	Bypass Left Inner Ear to Endolymphatic with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
091E0Z0	Bypass Left Inner Ear to Endolymphatic, Open Approach	PX	ICD-10-PCS
09500ZZ	Destruction of Right External Ear, Open Approach	PX	ICD-10-PCS
09504ZZ	Destruction of Right External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09510ZZ	Destruction of Left External Ear, Open Approach	PX	ICD-10-PCS
09514ZZ	Destruction of Left External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09530ZZ	Destruction of Right External Auditory Canal, Open Approach	PX	ICD-10-PCS
09534ZZ	Destruction of Right External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09540ZZ	Destruction of Left External Auditory Canal, Open Approach	PX	ICD-10-PCS
09544ZZ	Destruction of Left External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09550ZZ	Destruction of Right Middle Ear, Open Approach	PX	ICD-10-PCS
09558ZZ	Destruction of Right Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09560ZZ	Destruction of Left Middle Ear, Open Approach	PX	ICD-10-PCS
09568ZZ	Destruction of Left Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09570ZZ	Destruction of Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09573ZZ	Destruction of Right Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
09574ZZ	Destruction of Right Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09577ZZ	Destruction of Right Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09578ZZ	Destruction of Right Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09580ZZ	Destruction of Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09583ZZ	Destruction of Left Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
09584ZZ	Destruction of Left Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09587ZZ	Destruction of Left Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09588ZZ	Destruction of Left Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09590ZZ	Destruction of Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09598ZZ	Destruction of Right Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095A0ZZ	Destruction of Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
095A8ZZ	Destruction of Left Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095B0ZZ	Destruction of Right Mastoid Sinus, Open Approach	PX	ICD-10-PCS
095B3ZZ	Destruction of Right Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
095B4ZZ	Destruction of Right Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095B8ZZ	Destruction of Right Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095C0ZZ	Destruction of Left Mastoid Sinus, Open Approach	PX	ICD-10-PCS
095C3ZZ	Destruction of Left Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
095C4ZZ	Destruction of Left Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095C8ZZ	Destruction of Left Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095D0ZZ	Destruction of Right Inner Ear, Open Approach	PX	ICD-10-PCS
095D8ZZ	Destruction of Right Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095E0ZZ	Destruction of Left Inner Ear, Open Approach	PX	ICD-10-PCS
095E8ZZ	Destruction of Left Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095F0ZZ	Destruction of Right Eustachian Tube, Open Approach	PX	ICD-10-PCS
095F4ZZ	Destruction of Right Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095G0ZZ	Destruction of Left Eustachian Tube, Open Approach	PX	ICD-10-PCS
095G4ZZ	Destruction of Left Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095K4ZZ	Destruction of Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095L0ZZ	Destruction of Nasal Turbinate, Open Approach	PX	ICD-10-PCS
095L3ZZ	Destruction of Nasal Turbinate, Percutaneous Approach	PX	ICD-10-PCS
095L4ZZ	Destruction of Nasal Turbinate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095L7ZZ	Destruction of Nasal Turbinate, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
095L8ZZ	Destruction of Nasal Turbinate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095M4ZZ	Destruction of Nasal Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095N0ZZ	Destruction of Nasopharynx, Open Approach	PX	ICD-10-PCS
095N3ZZ	Destruction of Nasopharynx, Percutaneous Approach	PX	ICD-10-PCS
095N4ZZ	Destruction of Nasopharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095N7ZZ	Destruction of Nasopharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
095N8ZZ	Destruction of Nasopharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095P0ZZ	Destruction of Accessory Sinus, Open Approach	PX	ICD-10-PCS
095P3ZZ	Destruction of Accessory Sinus, Percutaneous Approach	PX	ICD-10-PCS
095P4ZZ	Destruction of Accessory Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095P8ZZ	Destruction of Accessory Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095Q0ZZ	Destruction of Right Maxillary Sinus, Open Approach	PX	ICD-10-PCS
095Q3ZZ	Destruction of Right Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
095Q4ZZ	Destruction of Right Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095Q8ZZ	Destruction of Right Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095R0ZZ	Destruction of Left Maxillary Sinus, Open Approach	PX	ICD-10-PCS
095R3ZZ	Destruction of Left Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
095R4ZZ	Destruction of Left Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095R8ZZ	Destruction of Left Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095S0ZZ	Destruction of Right Frontal Sinus, Open Approach	PX	ICD-10-PCS
095S3ZZ	Destruction of Right Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
095S4ZZ	Destruction of Right Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095S8ZZ	Destruction of Right Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095T0ZZ	Destruction of Left Frontal Sinus, Open Approach	PX	ICD-10-PCS
095T3ZZ	Destruction of Left Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
095T4ZZ	Destruction of Left Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095T8ZZ	Destruction of Left Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095U0ZZ	Destruction of Right Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
095U3ZZ	Destruction of Right Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
095U4ZZ	Destruction of Right Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095U8ZZ	Destruction of Right Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095V0ZZ	Destruction of Left Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
095V3ZZ	Destruction of Left Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
095V4ZZ	Destruction of Left Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095V8ZZ	Destruction of Left Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095W0ZZ	Destruction of Right Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
095W3ZZ	Destruction of Right Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
095W4ZZ	Destruction of Right Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095W8ZZ	Destruction of Right Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
095X0ZZ	Destruction of Left Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
095X3ZZ	Destruction of Left Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
095X4ZZ	Destruction of Left Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
095X8ZZ	Destruction of Left Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
097F0ZZ	Dilation of Right Eustachian Tube, Open Approach	PX	ICD-10-PCS
097F4ZZ	Dilation of Right Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
097G0ZZ	Dilation of Left Eustachian Tube, Open Approach	PX	ICD-10-PCS
097G4ZZ	Dilation of Left Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
097N0ZZ	Dilation of nasopharynx, open approach	PX	ICD-10-PCS
098L0ZZ	Division of Nasal Turbinate, Open Approach	PX	ICD-10-PCS
098L3ZZ	Division of Nasal Turbinate, Percutaneous Approach	PX	ICD-10-PCS
098L4ZZ	Division of Nasal Turbinate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
098L7ZZ	Division of Nasal Turbinate, Via Natural or Artificial Opening	PX	ICD-10-PCS
098L8ZZ	Division of Nasal Turbinate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099040Z	Drainage of Right External Ear with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09904ZZ	Drainage of Right External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099140Z	Drainage of Left External Ear with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09914ZZ	Drainage of Left External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099300Z	Drainage of Right External Auditory Canal with Drainage Device, Open Approach	PX	ICD-10-PCS
09930ZZ	Drainage of Right External Auditory Canal, Open Approach	PX	ICD-10-PCS
099340Z	Drainage of Right External Auditory Canal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09934ZZ	Drainage of Right External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099400Z	Drainage of Left External Auditory Canal with Drainage Device, Open Approach	PX	ICD-10-PCS
09940ZZ	Drainage of Left External Auditory Canal, Open Approach	PX	ICD-10-PCS
099440Z	Drainage of Left External Auditory Canal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09944ZZ	Drainage of Left External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099500Z	Drainage of Right Middle Ear with Drainage Device, Open Approach	PX	ICD-10-PCS
09950ZZ	Drainage of Right Middle Ear, Open Approach	PX	ICD-10-PCS
099570Z	Drainage of Right Middle Ear with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
099580Z	Drainage of Right Middle Ear with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099600Z	Drainage of Left Middle Ear with Drainage Device, Open Approach	PX	ICD-10-PCS
09960ZZ	Drainage of Left Middle Ear, Open Approach	PX	ICD-10-PCS
099670Z	Drainage of Left Middle Ear with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
099680Z	Drainage of Left Middle Ear with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099700Z	Drainage of Right Tympanic Membrane with Drainage Device, Open Approach	PX	ICD-10-PCS
09970ZZ	Drainage of Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
099730Z	Drainage of Right Tympanic Membrane with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
09973ZZ	Drainage of Right Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
099740Z	Drainage of Right Tympanic Membrane with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09974ZZ	Drainage of Right Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099770Z	Drainage of Right Tympanic Membrane with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
099780Z	Drainage of Right Tympanic Membrane with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099800Z	Drainage of Left Tympanic Membrane with Drainage Device, Open Approach	PX	ICD-10-PCS
09980ZZ	Drainage of Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
099830Z	Drainage of Left Tympanic Membrane with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
09983ZZ	Drainage of Left Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
099840Z	Drainage of Left Tympanic Membrane with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09984ZZ	Drainage of Left Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099870Z	Drainage of Left Tympanic Membrane with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
099880Z	Drainage of Left Tympanic Membrane with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099900Z	Drainage of Right Auditory Ossicle with Drainage Device, Open Approach	PX	ICD-10-PCS
09990ZZ	Drainage of Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
099970Z	Drainage of Right Auditory Ossicle with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
09997ZZ	Drainage of Right Auditory Ossicle, Via Natural or Artificial Opening	PX	ICD-10-PCS
099980Z	Drainage of Right Auditory Ossicle with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09998ZZ	Drainage of Right Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099A00Z	Drainage of Left Auditory Ossicle with Drainage Device, Open Approach	PX	ICD-10-PCS
099A0ZZ	Drainage of Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
099A70Z	Drainage of Left Auditory Ossicle with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
099A7ZZ	Drainage of Left Auditory Ossicle, Via Natural or Artificial Opening	PX	ICD-10-PCS
099A80Z	Drainage of Left Auditory Ossicle with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099A8ZZ	Drainage of Left Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099B00Z	Drainage of Right Mastoid Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS
099B0ZZ	Drainage of Right Mastoid Sinus, Open Approach	PX	ICD-10-PCS
099B40Z	Drainage of Right Mastoid Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099B4ZZ	Drainage of Right Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099B70Z	Drainage of Right Mastoid Sinus with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
099B7ZZ	Drainage of Right Mastoid Sinus, Via Natural or Artificial Opening	PX	ICD-10-PCS
099B80Z	Drainage of Right Mastoid Sinus with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099B8ZZ	Drainage of Right Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099C00Z	Drainage of Left Mastoid Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
099C0ZZ	Drainage of Left Mastoid Sinus, Open Approach	PX	ICD-10-PCS
099C40Z	Drainage of Left Mastoid Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099C4ZZ	Drainage of Left Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099C70Z	Drainage of Left Mastoid Sinus with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
099C7ZZ	Drainage of Left Mastoid Sinus, Via Natural or Artificial Opening	PX	ICD-10-PCS
099C80Z	Drainage of Left Mastoid Sinus with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099C8ZZ	Drainage of Left Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099D00Z	Drainage of Right Inner Ear with Drainage Device, Open Approach	PX	ICD-10-PCS
099D0ZZ	Drainage of Right Inner Ear, Open Approach	PX	ICD-10-PCS
099D70Z	Drainage of Right Inner Ear with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
099D7ZZ	Drainage of Right Inner Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
099D80Z	Drainage of Right Inner Ear with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099D8ZZ	Drainage of Right Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099E00Z	Drainage of Left Inner Ear with Drainage Device, Open Approach	PX	ICD-10-PCS
099E0ZZ	Drainage of Left Inner Ear, Open Approach	PX	ICD-10-PCS
099E70Z	Drainage of Left Inner Ear with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
099E7ZZ	Drainage of Left Inner Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
099E80Z	Drainage of Left Inner Ear with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099E8ZZ	Drainage of Left Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
099F00Z	Drainage of Right Eustachian Tube with Drainage Device, Open Approach	PX	ICD-10-PCS
099F0ZZ	Drainage of Right Eustachian Tube, Open Approach	PX	ICD-10-PCS
099F40Z	Drainage of Right Eustachian Tube with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099F4ZZ	Drainage of Right Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099G00Z	Drainage of Left Eustachian Tube with Drainage Device, Open Approach	PX	ICD-10-PCS
099G0ZZ	Drainage of Left Eustachian Tube, Open Approach	PX	ICD-10-PCS
099G40Z	Drainage of Left Eustachian Tube with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099G4ZZ	Drainage of Left Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099K00Z	Drainage of Nasal Mucosa and Soft Tissue with Drainage Device, Open Approach	PX	ICD-10-PCS
099K40Z	Drainage of Nasal Mucosa and Soft Tissue with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099K4ZZ	Drainage of Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099L40Z	Drainage of Nasal Turbinate with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099L4ZZ	Drainage of Nasal Turbinate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099M40Z	Drainage of Nasal Septum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099M4ZZ	Drainage of Nasal Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
099N00Z	Drainage of Nasopharynx with Drainage Device, Open Approach	PX	ICD-10-PCS
099N0ZZ	Drainage of Nasopharynx, Open Approach	PX	ICD-10-PCS
099N40Z	Drainage of Nasopharynx with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099N4ZZ	Drainage of Nasopharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099P00Z	Drainage of Accessory Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS
099P0ZZ	Drainage of Accessory Sinus, Open Approach	PX	ICD-10-PCS
099P40Z	Drainage of Accessory Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099P4ZZ	Drainage of Accessory Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099Q00Z	Drainage of Right Maxillary Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS
099Q0ZZ	Drainage of Right Maxillary Sinus, Open Approach	PX	ICD-10-PCS
099Q40Z	Drainage of Right Maxillary Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099Q4ZZ	Drainage of Right Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099R00Z	Drainage of Left Maxillary Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS
099R0ZZ	Drainage of Left Maxillary Sinus, Open Approach	PX	ICD-10-PCS
099R40Z	Drainage of Left Maxillary Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099R4ZZ	Drainage of Left Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099S00Z	Drainage of Right Frontal Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS
099S0ZZ	Drainage of Right Frontal Sinus, Open Approach	PX	ICD-10-PCS
099S40Z	Drainage of Right Frontal Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099S4ZZ	Drainage of Right Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099T00Z	Drainage of Left Frontal Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS
099T0ZZ	Drainage of Left Frontal Sinus, Open Approach	PX	ICD-10-PCS
099T40Z	Drainage of Left Frontal Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099T4ZZ	Drainage of Left Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099U00Z	Drainage of Right Ethmoid Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS
099U0ZZ	Drainage of Right Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
099U40Z	Drainage of Right Ethmoid Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099U4ZZ	Drainage of Right Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099V00Z	Drainage of Left Ethmoid Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS
099V0ZZ	Drainage of Left Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
099V40Z	Drainage of Left Ethmoid Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099V4ZZ	Drainage of Left Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099W00Z	Drainage of Right Sphenoid Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS
099W0ZZ	Drainage of Right Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
099W40Z	Drainage of Right Sphenoid Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099W4ZZ	Drainage of Right Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
099X00Z	Drainage of Left Sphenoid Sinus with Drainage Device, Open Approach	PX	ICD-10-PCS
099X0ZZ	Drainage of Left Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
099X40Z	Drainage of Left Sphenoid Sinus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
099X4ZZ	Drainage of Left Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09B04ZZ	Excision of Right External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09B14ZZ	Excision of Left External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09B30ZZ	Excision of Right External Auditory Canal, Open Approach	PX	ICD-10-PCS
09B34ZZ	Excision of Right External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09B40ZZ	Excision of Left External Auditory Canal, Open Approach	PX	ICD-10-PCS
09B44ZZ	Excision of Left External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09B50ZZ	Excision of Right Middle Ear, Open Approach	PX	ICD-10-PCS
09B58ZZ	Excision of Right Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09B60ZZ	Excision of Left Middle Ear, Open Approach	PX	ICD-10-PCS
09B68ZZ	Excision of Left Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09B70ZZ	Excision of Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09B73ZZ	Excision of Right Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
09B74ZZ	Excision of Right Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09B77ZZ	Excision of Right Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09B78ZZ	Excision of Right Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09B80ZZ	Excision of Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09B83ZZ	Excision of Left Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
09B84ZZ	Excision of Left Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09B87ZZ	Excision of Left Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09B88ZZ	Excision of Left Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09B90ZZ	Excision of Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09B98ZZ	Excision of Right Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BA0ZZ	Excision of Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09BA8ZZ	Excision of Left Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BB0ZZ	Excision of Right Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09BB3ZZ	Excision of Right Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BB4ZZ	Excision of Right Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BB8ZZ	Excision of Right Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BC0ZZ	Excision of Left Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09BC3ZZ	Excision of Left Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BC4ZZ	Excision of Left Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BC8ZZ	Excision of Left Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BD0ZZ	Excision of Right Inner Ear, Open Approach	PX	ICD-10-PCS
09BD8ZZ	Excision of Right Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BE0ZZ	Excision of Left Inner Ear, Open Approach	PX	ICD-10-PCS
09BE8ZZ	Excision of Left Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BF0ZZ	Excision of Right Eustachian Tube, Open Approach	PX	ICD-10-PCS
09BF4ZZ	Excision of Right Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09BG0ZZ	Excision of Left Eustachian Tube, Open Approach	PX	ICD-10-PCS
09BG4ZZ	Excision of Left Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BK4ZZ	Excision of Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BL0ZZ	Excision of Nasal Turbinate, Open Approach	PX	ICD-10-PCS
09BL3ZZ	Excision of Nasal Turbinate, Percutaneous Approach	PX	ICD-10-PCS
09BL4ZZ	Excision of Nasal Turbinate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BL7ZZ	Excision of Nasal Turbinate, Via Natural or Artificial Opening	PX	ICD-10-PCS
09BL8ZZ	Excision of Nasal Turbinate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BM0ZZ	Excision of Nasal Septum, Open Approach	PX	ICD-10-PCS
09BM3ZZ	Excision of Nasal Septum, Percutaneous Approach	PX	ICD-10-PCS
09BM4ZZ	Excision of Nasal Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BM8ZZ	Excision of Nasal Septum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BN0ZZ	Excision of Nasopharynx, Open Approach	PX	ICD-10-PCS
09BN3ZZ	Excision of Nasopharynx, Percutaneous Approach	PX	ICD-10-PCS
09BN4ZZ	Excision of Nasopharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BN7ZZ	Excision of Nasopharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
09BN8ZZ	Excision of Nasopharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BP0ZZ	Excision of Accessory Sinus, Open Approach	PX	ICD-10-PCS
09BP3ZZ	Excision of Accessory Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BP4ZZ	Excision of Accessory Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BP8ZZ	Excision of Accessory Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BQ0ZZ	Excision of Right Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09BQ3ZZ	Excision of Right Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BQ4ZZ	Excision of Right Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BQ8ZZ	Excision of Right Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BR0ZZ	Excision of Left Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09BR3ZZ	Excision of Left Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BR4ZZ	Excision of Left Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BR8ZZ	Excision of Left Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BS0ZZ	Excision of Right Frontal Sinus, Open Approach	PX	ICD-10-PCS
09BS3ZZ	Excision of Right Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BS4ZZ	Excision of Right Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BS8ZZ	Excision of Right Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BT0ZZ	Excision of Left Frontal Sinus, Open Approach	PX	ICD-10-PCS
09BT3ZZ	Excision of Left Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BT4ZZ	Excision of Left Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BT8ZZ	Excision of Left Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BU0ZZ	Excision of Right Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09BU3ZZ	Excision of Right Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BU4ZZ	Excision of Right Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BU8ZZ	Excision of Right Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BV0ZZ	Excision of Left Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09BV3ZZ	Excision of Left Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BV4ZZ	Excision of Left Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BV8ZZ	Excision of Left Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09BW0ZZ	Excision of Right Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09BW3ZZ	Excision of Right Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BW4ZZ	Excision of Right Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BW8ZZ	Excision of Right Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09BX0ZZ	Excision of Left Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09BX3ZZ	Excision of Left Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09BX4ZZ	Excision of Left Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09BX8ZZ	Excision of Left Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09C00ZZ	Extirpation of Matter from Right External Ear, Open Approach	PX	ICD-10-PCS
09C04ZZ	Extirpation of Matter from Right External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09C10ZZ	Extirpation of Matter from Left External Ear, Open Approach	PX	ICD-10-PCS
09C14ZZ	Extirpation of Matter from Left External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09C30ZZ	Extirpation of Matter from Right External Auditory Canal, Open Approach	PX	ICD-10-PCS
09C34ZZ	Extirpation of Matter from Right External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09C40ZZ	Extirpation of Matter from Left External Auditory Canal, Open Approach	PX	ICD-10-PCS
09C44ZZ	Extirpation of Matter from Left External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09C50ZZ	Extirpation of Matter from Right Middle Ear, Open Approach	PX	ICD-10-PCS
09C58ZZ	Extirpation of Matter from Right Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09C60ZZ	Extirpation of Matter from Left Middle Ear, Open Approach	PX	ICD-10-PCS
09C68ZZ	Extirpation of Matter from Left Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09C70ZZ	Extirpation of Matter from Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09C74ZZ	Extirpation of Matter from Right Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09C80ZZ	Extirpation of Matter from Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09C84ZZ	Extirpation of Matter from Left Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09C90ZZ	Extirpation of Matter from Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09C98ZZ	Extirpation of Matter from Right Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CA0ZZ	Extirpation of Matter from Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09CA8ZZ	Extirpation of Matter from Left Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CB0ZZ	Extirpation of Matter from Right Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09CB3ZZ	Extirpation of Matter from Right Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CB4ZZ	Extirpation of Matter from Right Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CB8ZZ	Extirpation of Matter from Right Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CC0ZZ	Extirpation of Matter from Left Mastoid Sinus, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09CC3ZZ	Extirpation of Matter from Left Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CC4ZZ	Extirpation of Matter from Left Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CC8ZZ	Extirpation of Matter from Left Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CD0ZZ	Extirpation of Matter from Right Inner Ear, Open Approach	PX	ICD-10-PCS
09CD8ZZ	Extirpation of Matter from Right Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CE0ZZ	Extirpation of Matter from Left Inner Ear, Open Approach	PX	ICD-10-PCS
09CE8ZZ	Extirpation of Matter from Left Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CF0ZZ	Extirpation of Matter from Right Eustachian Tube, Open Approach	PX	ICD-10-PCS
09CF4ZZ	Extirpation of Matter from Right Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CG0ZZ	Extirpation of Matter from Left Eustachian Tube, Open Approach	PX	ICD-10-PCS
09CG4ZZ	Extirpation of Matter from Left Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CK4ZZ	Extirpation of Matter from Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CL4ZZ	Extirpation of Matter from Nasal Turbinate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CM4ZZ	Extirpation of Matter from Nasal Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CN0ZZ	Extirpation of Matter from Nasopharynx, Open Approach	PX	ICD-10-PCS
09CN3ZZ	Extirpation of Matter from Nasopharynx, Percutaneous Approach	PX	ICD-10-PCS
09CN4ZZ	Extirpation of Matter from Nasopharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CN7ZZ	Extirpation of Matter from Nasopharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
09CN8ZZ	Extirpation of Matter from Nasopharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CP0ZZ	Extirpation of Matter from Accessory Sinus, Open Approach	PX	ICD-10-PCS
09CP3ZZ	Extirpation of Matter from Accessory Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CP4ZZ	Extirpation of Matter from Accessory Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CP8ZZ	Extirpation of Matter from Accessory Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CQ0ZZ	Extirpation of Matter from Right Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09CQ3ZZ	Extirpation of Matter from Right Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CQ4ZZ	Extirpation of Matter from Right Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CQ8ZZ	Extirpation of Matter from Right Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CR0ZZ	Extirpation of Matter from Left Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09CR3ZZ	Extirpation of Matter from Left Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CR4ZZ	Extirpation of Matter from Left Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CR8ZZ	Extirpation of Matter from Left Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CS0ZZ	Extirpation of Matter from Right Frontal Sinus, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09CS3ZZ	Extirpation of Matter from Right Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CS4ZZ	Extirpation of Matter from Right Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CS8ZZ	Extirpation of Matter from Right Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CT0ZZ	Extirpation of Matter from Left Frontal Sinus, Open Approach	PX	ICD-10-PCS
09CT3ZZ	Extirpation of Matter from Left Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CT4ZZ	Extirpation of Matter from Left Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CT8ZZ	Extirpation of Matter from Left Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CU0ZZ	Extirpation of Matter from Right Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09CU3ZZ	Extirpation of Matter from Right Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CU4ZZ	Extirpation of Matter from Right Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CU8ZZ	Extirpation of Matter from Right Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CV0ZZ	Extirpation of Matter from Left Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09CV3ZZ	Extirpation of Matter from Left Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CV4ZZ	Extirpation of Matter from Left Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CV8ZZ	Extirpation of Matter from Left Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CW0ZZ	Extirpation of Matter from Right Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09CW3ZZ	Extirpation of Matter from Right Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CW4ZZ	Extirpation of Matter from Right Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CW8ZZ	Extirpation of Matter from Right Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09CX0ZZ	Extirpation of Matter from Left Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09CX3ZZ	Extirpation of Matter from Left Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09CX4ZZ	Extirpation of Matter from Left Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09CX8ZZ	Extirpation of Matter from Left Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09D70ZZ	Extraction of Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09D73ZZ	Extraction of Right Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
09D74ZZ	Extraction of Right Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09D77ZZ	Extraction of Right Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09D78ZZ	Extraction of Right Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09D80ZZ	Extraction of Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09D83ZZ	Extraction of Left Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
09D84ZZ	Extraction of Left Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09D87ZZ	Extraction of Left Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09D88ZZ	Extraction of Left Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09D90ZZ	Extraction of Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09DA0ZZ	Extraction of Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09DB0ZZ	Extraction of Right Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09DB3ZZ	Extraction of Right Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DB4ZZ	Extraction of Right Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DC0ZZ	Extraction of Left Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09DC3ZZ	Extraction of Left Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DC4ZZ	Extraction of Left Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DL0ZZ	Extraction of Nasal Turbinate, Open Approach	PX	ICD-10-PCS
09DL3ZZ	Extraction of Nasal Turbinate, Percutaneous Approach	PX	ICD-10-PCS
09DL4ZZ	Extraction of Nasal Turbinate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DL7ZZ	Extraction of Nasal Turbinate, Via Natural or Artificial Opening	PX	ICD-10-PCS
09DL8ZZ	Extraction of Nasal Turbinate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09DM0ZZ	Extraction of Nasal Septum, Open Approach	PX	ICD-10-PCS
09DM3ZZ	Extraction of Nasal Septum, Percutaneous Approach	PX	ICD-10-PCS
09DM4ZZ	Extraction of Nasal Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DP0ZZ	Extraction of Accessory Sinus, Open Approach	PX	ICD-10-PCS
09DP3ZZ	Extraction of Accessory Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DP4ZZ	Extraction of Accessory Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DQ0ZZ	Extraction of Right Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09DQ3ZZ	Extraction of Right Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DQ4ZZ	Extraction of Right Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DR0ZZ	Extraction of Left Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09DR3ZZ	Extraction of Left Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DR4ZZ	Extraction of Left Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DS0ZZ	Extraction of Right Frontal Sinus, Open Approach	PX	ICD-10-PCS
09DS3ZZ	Extraction of Right Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DS4ZZ	Extraction of Right Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DT0ZZ	Extraction of Left Frontal Sinus, Open Approach	PX	ICD-10-PCS
09DT3ZZ	Extraction of Left Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DT4ZZ	Extraction of Left Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DU0ZZ	Extraction of Right Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09DU3ZZ	Extraction of Right Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DU4ZZ	Extraction of Right Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DV0ZZ	Extraction of Left Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09DV3ZZ	Extraction of Left Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DV4ZZ	Extraction of Left Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DW0ZZ	Extraction of Right Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09DW3ZZ	Extraction of Right Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DW4ZZ	Extraction of Right Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09DX0ZZ	Extraction of Left Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09DX3ZZ	Extraction of Left Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09DX4ZZ	Extraction of Left Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09HD01Z	Insertion of Radioactive Element into Right Inner Ear, Open Approach	PX	ICD-10-PCS
09HD04Z	Insertion of Bone Conduction Hearing Device into Right Inner Ear, Open Approach	PX	ICD-10-PCS
09HD05Z	Insertion of Single Channel Cochlear Prosthesis into Right Inner Ear, Open Approach	PX	ICD-10-PCS
09HD06Z	Insertion of Multiple Channel Cochlear Prosthesis into Right Inner Ear, Open Approach	PX	ICD-10-PCS
09HD0SZ	Insertion of Hearing Device into Right Inner Ear, Open Approach	PX	ICD-10-PCS
09HD34Z	Insertion of Bone Conduction Hearing Device into Right Inner Ear, Percutaneous Approach	PX	ICD-10-PCS
09HD35Z	Insertion of Single Channel Cochlear Prosthesis into Right Inner Ear, Percutaneous Approach	PX	ICD-10-PCS
09HD36Z	Insertion of Multiple Channel Cochlear Prosthesis into Right Inner Ear, Percutaneous Approach	PX	ICD-10-PCS
09HD3SZ	Insertion of Hearing Device into Right Inner Ear, Percutaneous Approach	PX	ICD-10-PCS
09HD41Z	Insertion of Radioactive Element into Right Inner Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HD44Z	Insertion of Bone Conduction Hearing Device into Right Inner Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HD45Z	Insertion of Single Channel Cochlear Prosthesis into Right Inner Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HD46Z	Insertion of Multiple Channel Cochlear Prosthesis into Right Inner Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HD4SZ	Insertion of Hearing Device into Right Inner Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HE01Z	Insertion of Radioactive Element into Left Inner Ear, Open Approach	PX	ICD-10-PCS
09HE04Z	Insertion of Bone Conduction Hearing Device into Left Inner Ear, Open Approach	PX	ICD-10-PCS
09HE05Z	Insertion of Single Channel Cochlear Prosthesis into Left Inner Ear, Open Approach	PX	ICD-10-PCS
09HE06Z	Insertion of Multiple Channel Cochlear Prosthesis into Left Inner Ear, Open Approach	PX	ICD-10-PCS
09HE0SZ	Insertion of Hearing Device into Left Inner Ear, Open Approach	PX	ICD-10-PCS
09HE34Z	Insertion of Bone Conduction Hearing Device into Left Inner Ear, Percutaneous Approach	PX	ICD-10-PCS
09HE35Z	Insertion of Single Channel Cochlear Prosthesis into Left Inner Ear, Percutaneous Approach	PX	ICD-10-PCS
09HE36Z	Insertion of Multiple Channel Cochlear Prosthesis into Left Inner Ear, Percutaneous Approach	PX	ICD-10-PCS
09HE3SZ	Insertion of Hearing Device into Left Inner Ear, Percutaneous Approach	PX	ICD-10-PCS
09HE41Z	Insertion of Radioactive Element into Left Inner Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HE44Z	Insertion of Bone Conduction Hearing Device into Left Inner Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09HE45Z	Insertion of Single Channel Cochlear Prosthesis into Left Inner Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HE46Z	Insertion of Multiple Channel Cochlear Prosthesis into Left Inner Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HE4SZ	Insertion of Hearing Device into Left Inner Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HH01Z	Insertion of Radioactive Element into Right Ear, Open Approach	PX	ICD-10-PCS
09HH0YZ	Insertion of Other Device into Right Ear, Open Approach	PX	ICD-10-PCS
09HH41Z	Insertion of Radioactive Element into Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HH4YZ	Insertion of Other Device into Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HJ01Z	Insertion of Radioactive Element into Left Ear, Open Approach	PX	ICD-10-PCS
09HJ0YZ	Insertion of Other Device into Left Ear, Open Approach	PX	ICD-10-PCS
09HJ41Z	Insertion of Radioactive Element into Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HJ4YZ	Insertion of Other Device into Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HK01Z	Insertion of Radioactive Element into Nasal Mucosa and Soft Tissue, Open Approach	PX	ICD-10-PCS
09HK0YZ	Insertion of Other Device into Nasal Mucosa and Soft Tissue, Open Approach	PX	ICD-10-PCS
09HK41Z	Insertion of Radioactive Element into Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HK4YZ	Insertion of Other Device into Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HY01Z	Insertion of Radioactive Element into Sinus, Open Approach	PX	ICD-10-PCS
09HY0YZ	Insertion of Other Device into Sinus, Open Approach	PX	ICD-10-PCS
09HY41Z	Insertion of Radioactive Element into Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09HY4YZ	Insertion of Other Device into Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09M0XZZ	Reattachment of Right External Ear, External Approach	PX	ICD-10-PCS
09M1XZZ	Reattachment of Left External Ear, External Approach	PX	ICD-10-PCS
09MKXZZ	Reattachment of Nasal Mucosa and Soft Tissue, External Approach	PX	ICD-10-PCS
09N00ZZ	Release Right External Ear, Open Approach	PX	ICD-10-PCS
09N03ZZ	Release Right External Ear, Percutaneous Approach	PX	ICD-10-PCS
09N04ZZ	Release Right External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09N10ZZ	Release Left External Ear, Open Approach	PX	ICD-10-PCS
09N13ZZ	Release Left External Ear, Percutaneous Approach	PX	ICD-10-PCS
09N14ZZ	Release Left External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09N30ZZ	Release Right External Auditory Canal, Open Approach	PX	ICD-10-PCS
09N33ZZ	Release Right External Auditory Canal, Percutaneous Approach	PX	ICD-10-PCS
09N34ZZ	Release Right External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09N37ZZ	Release Right External Auditory Canal, Via Natural or Artificial Opening	PX	ICD-10-PCS
09N38ZZ	Release Right External Auditory Canal, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09N40ZZ	Release Left External Auditory Canal, Open Approach	PX	ICD-10-PCS
09N43ZZ	Release Left External Auditory Canal, Percutaneous Approach	PX	ICD-10-PCS
09N44ZZ	Release Left External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09N47ZZ	Release Left External Auditory Canal, Via Natural or Artificial Opening	PX	ICD-10-PCS
09N48ZZ	Release Left External Auditory Canal, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09N50ZZ	Release Right Middle Ear, Open Approach	PX	ICD-10-PCS
09N58ZZ	Release Right Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09N60ZZ	Release Left Middle Ear, Open Approach	PX	ICD-10-PCS
09N68ZZ	Release Left Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09N70ZZ	Release Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09N73ZZ	Release Right Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
09N74ZZ	Release Right Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09N77ZZ	Release Right Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09N78ZZ	Release Right Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09N80ZZ	Release Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09N83ZZ	Release Left Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
09N84ZZ	Release Left Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09N87ZZ	Release Left Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09N88ZZ	Release Left Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09N90ZZ	Release Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09N98ZZ	Release Right Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NA0ZZ	Release Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09NA8ZZ	Release Left Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NB0ZZ	Release Right Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09NB3ZZ	Release Right Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NB4ZZ	Release Right Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NB8ZZ	Release Right Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NC0ZZ	Release Left Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09NC3ZZ	Release Left Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NC4ZZ	Release Left Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NC8ZZ	Release Left Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09ND0ZZ	Release Right Inner Ear, Open Approach	PX	ICD-10-PCS
09ND8ZZ	Release Right Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NE0ZZ	Release Left Inner Ear, Open Approach	PX	ICD-10-PCS
09NE8ZZ	Release Left Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NF0ZZ	Release Right Eustachian Tube, Open Approach	PX	ICD-10-PCS
09NF4ZZ	Release Right Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NG0ZZ	Release Left Eustachian Tube, Open Approach	PX	ICD-10-PCS
09NG4ZZ	Release Left Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NK4ZZ	Release Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NL4ZZ	Release Nasal Turbinate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NM4ZZ	Release Nasal Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NN0ZZ	Release Nasopharynx, Open Approach	PX	ICD-10-PCS
09NN3ZZ	Release Nasopharynx, Percutaneous Approach	PX	ICD-10-PCS
09NN4ZZ	Release Nasopharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NN7ZZ	Release Nasopharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
09NN8ZZ	Release Nasopharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09NP0ZZ	Release Accessory Sinus, Open Approach	PX	ICD-10-PCS
09NP3ZZ	Release Accessory Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NP4ZZ	Release Accessory Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NP8ZZ	Release Accessory Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NQ0ZZ	Release Right Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09NQ3ZZ	Release Right Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NQ4ZZ	Release Right Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NQ8ZZ	Release Right Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NR0ZZ	Release Left Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09NR3ZZ	Release Left Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NR4ZZ	Release Left Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NR8ZZ	Release Left Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NS0ZZ	Release Right Frontal Sinus, Open Approach	PX	ICD-10-PCS
09NS3ZZ	Release Right Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NS4ZZ	Release Right Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NS8ZZ	Release Right Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NT0ZZ	Release Left Frontal Sinus, Open Approach	PX	ICD-10-PCS
09NT3ZZ	Release Left Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NT4ZZ	Release Left Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NT8ZZ	Release Left Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NU0ZZ	Release Right Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09NU3ZZ	Release Right Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NU4ZZ	Release Right Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NU8ZZ	Release Right Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NV0ZZ	Release Left Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09NV3ZZ	Release Left Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NV4ZZ	Release Left Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NV8ZZ	Release Left Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NW0ZZ	Release Right Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09NW3ZZ	Release Right Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NW4ZZ	Release Right Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NW8ZZ	Release Right Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09NX0ZZ	Release Left Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09NX3ZZ	Release Left Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09NX4ZZ	Release Left Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09NX8ZZ	Release Left Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09PD0SZ	Removal of Hearing Device from Right Inner Ear, Open Approach	PX	ICD-10-PCS
09PD7SZ	Removal of Hearing Device from Right Inner Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09PD8SZ	Removal of Hearing Device from Right Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09PE0SZ	Removal of Hearing Device from Left Inner Ear, Open Approach	PX	ICD-10-PCS
09PE7SZ	Removal of Hearing Device from Left Inner Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09PE8SZ	Removal of Hearing Device from Left Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09PH00Z	Removal of Drainage Device from Right Ear, Open Approach	PX	ICD-10-PCS
09PH07Z	Removal of Autologous Tissue Substitute from Right Ear, Open Approach	PX	ICD-10-PCS
09PH0DZ	Removal of Intraluminal Device from Right Ear, Open Approach	PX	ICD-10-PCS
09PH0JZ	Removal of Synthetic Substitute from Right Ear, Open Approach	PX	ICD-10-PCS
09PH0KZ	Removal of Nonautologous Tissue Substitute from Right Ear, Open Approach	PX	ICD-10-PCS
09PH0YZ	Removal of Other Device from Right Ear, Open Approach	PX	ICD-10-PCS
09PH37Z	Removal of Autologous Tissue Substitute from Right Ear, Percutaneous Approach	PX	ICD-10-PCS
09PH3DZ	Removal of Intraluminal Device from Right Ear, Percutaneous Approach	PX	ICD-10-PCS
09PH40Z	Removal of Drainage Device from Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PH47Z	Removal of Autologous Tissue Substitute from Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PH4DZ	Removal of Intraluminal Device from Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PH4JZ	Removal of Synthetic Substitute from Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PH4KZ	Removal of Nonautologous Tissue Substitute from Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PH4YZ	Removal of Other Device from Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PH77Z	Removal of Autologous Tissue Substitute from Right Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09PH7JZ	Removal of Synthetic Substitute from Right Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09PH7KZ	Removal of Nonautologous Tissue Substitute from Right Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09PH87Z	Removal of Autologous Tissue Substitute from Right Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09PH8JZ	Removal of Synthetic Substitute from Right Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09PH8KZ	Removal of Nonautologous Tissue Substitute from Right Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09PJ00Z	Removal of Drainage Device from Left Ear, Open Approach	PX	ICD-10-PCS
09PJ07Z	Removal of Autologous Tissue Substitute from Left Ear, Open Approach	PX	ICD-10-PCS
09PJ0DZ	Removal of Intraluminal Device from Left Ear, Open Approach	PX	ICD-10-PCS
09PJ0JZ	Removal of Synthetic Substitute from Left Ear, Open Approach	PX	ICD-10-PCS
09PJ0KZ	Removal of Nonautologous Tissue Substitute from Left Ear, Open Approach	PX	ICD-10-PCS
09PJ0YZ	Removal of Other Device from Left Ear, Open Approach	PX	ICD-10-PCS
09PJ37Z	Removal of Autologous Tissue Substitute from Left Ear, Percutaneous Approach	PX	ICD-10-PCS
09PJ3DZ	Removal of Intraluminal Device from Left Ear, Percutaneous Approach	PX	ICD-10-PCS
09PJ40Z	Removal of Drainage Device from Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PJ47Z	Removal of Autologous Tissue Substitute from Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PJ4DZ	Removal of Intraluminal Device from Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PJ4JZ	Removal of Synthetic Substitute from Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09PJ4KZ	Removal of Nonautologous Tissue Substitute from Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PJ4YZ	Removal of Other Device from Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PJ77Z	Removal of Autologous Tissue Substitute from Left Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09PJ7JZ	Removal of Synthetic Substitute from Left Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09PJ7KZ	Removal of Nonautologous Tissue Substitute from Left Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09PJ87Z	Removal of Autologous Tissue Substitute from Left Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09PJ8JZ	Removal of Synthetic Substitute from Left Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09PJ8KZ	Removal of Nonautologous Tissue Substitute from Left Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09PK40Z	Removal of Drainage Device from Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PK47Z	Removal of Autologous Tissue Substitute from Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PK4DZ	Removal of Intraluminal Device from Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PK4JZ	Removal of Synthetic Substitute from Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PK4KZ	Removal of Nonautologous Tissue Substitute from Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PK4YZ	Removal of Other Device from Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PY00Z	Removal of Drainage Device from Sinus, Open Approach	PX	ICD-10-PCS
09PY0YZ	Removal of Other Device from Sinus, Open Approach	PX	ICD-10-PCS
09PY30Z	Removal of Drainage Device from Sinus, Percutaneous Approach	PX	ICD-10-PCS
09PY3YZ	Removal of Other Device from Sinus, Percutaneous Approach	PX	ICD-10-PCS
09PY40Z	Removal of Drainage Device from Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09PY4YZ	Removal of Other Device from Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09Q00ZZ	Repair Right External Ear, Open Approach	PX	ICD-10-PCS
09Q03ZZ	Repair Right External Ear, Percutaneous Approach	PX	ICD-10-PCS
09Q04ZZ	Repair Right External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09Q10ZZ	Repair Left External Ear, Open Approach	PX	ICD-10-PCS
09Q13ZZ	Repair Left External Ear, Percutaneous Approach	PX	ICD-10-PCS
09Q14ZZ	Repair Left External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09Q20ZZ	Repair Bilateral External Ear, Open Approach	PX	ICD-10-PCS
09Q23ZZ	Repair Bilateral External Ear, Percutaneous Approach	PX	ICD-10-PCS
09Q24ZZ	Repair Bilateral External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09Q30ZZ	Repair Right External Auditory Canal, Open Approach	PX	ICD-10-PCS
09Q33ZZ	Repair Right External Auditory Canal, Percutaneous Approach	PX	ICD-10-PCS
09Q34ZZ	Repair Right External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09Q37ZZ	Repair Right External Auditory Canal, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09Q38ZZ	Repair Right External Auditory Canal, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09Q40ZZ	Repair Left External Auditory Canal, Open Approach	PX	ICD-10-PCS
09Q43ZZ	Repair Left External Auditory Canal, Percutaneous Approach	PX	ICD-10-PCS
09Q44ZZ	Repair Left External Auditory Canal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09Q47ZZ	Repair Left External Auditory Canal, Via Natural or Artificial Opening	PX	ICD-10-PCS
09Q48ZZ	Repair Left External Auditory Canal, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09Q50ZZ	Repair Right Middle Ear, Open Approach	PX	ICD-10-PCS
09Q58ZZ	Repair Right Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09Q60ZZ	Repair Left Middle Ear, Open Approach	PX	ICD-10-PCS
09Q68ZZ	Repair Left Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09Q70ZZ	Repair Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09Q73ZZ	Repair Right Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
09Q74ZZ	Repair Right Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09Q77ZZ	Repair Right Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09Q78ZZ	Repair Right Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09Q80ZZ	Repair Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09Q83ZZ	Repair Left Tympanic Membrane, Percutaneous Approach	PX	ICD-10-PCS
09Q84ZZ	Repair Left Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09Q87ZZ	Repair Left Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09Q88ZZ	Repair Left Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09Q90ZZ	Repair Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09Q98ZZ	Repair Right Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QA0ZZ	Repair Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09QA8ZZ	Repair Left Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QB0ZZ	Repair Right Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09QB3ZZ	Repair Right Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QB4ZZ	Repair Right Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QB8ZZ	Repair Right Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QC0ZZ	Repair Left Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09QC3ZZ	Repair Left Mastoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QC4ZZ	Repair Left Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QC8ZZ	Repair Left Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QD0ZZ	Repair Right Inner Ear, Open Approach	PX	ICD-10-PCS
09QD8ZZ	Repair Right Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QE0ZZ	Repair Left Inner Ear, Open Approach	PX	ICD-10-PCS
09QE8ZZ	Repair Left Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QF0ZZ	Repair Right Eustachian Tube, Open Approach	PX	ICD-10-PCS
09QF4ZZ	Repair Right Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QG0ZZ	Repair Left Eustachian Tube, Open Approach	PX	ICD-10-PCS
09QG4ZZ	Repair Left Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QK0ZZ	Repair Nasal Mucosa and Soft Tissue, Open Approach	PX	ICD-10-PCS
09QK3ZZ	Repair Nasal Mucosa and Soft Tissue, Percutaneous Approach	PX	ICD-10-PCS
09QK4ZZ	Repair Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09QK8ZZ	Repair Nasal Mucosa and Soft Tissue, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QL0ZZ	Repair Nasal Turbinate, Open Approach	PX	ICD-10-PCS
09QL3ZZ	Repair Nasal Turbinate, Percutaneous Approach	PX	ICD-10-PCS
09QL4ZZ	Repair Nasal Turbinate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QL7ZZ	Repair Nasal Turbinate, Via Natural or Artificial Opening	PX	ICD-10-PCS
09QL8ZZ	Repair Nasal Turbinate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QM0ZZ	Repair Nasal Septum, Open Approach	PX	ICD-10-PCS
09QM3ZZ	Repair Nasal Septum, Percutaneous Approach	PX	ICD-10-PCS
09QM4ZZ	Repair Nasal Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QM8ZZ	Repair Nasal Septum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QN0ZZ	Repair Nasopharynx, Open Approach	PX	ICD-10-PCS
09QN3ZZ	Repair Nasopharynx, Percutaneous Approach	PX	ICD-10-PCS
09QN4ZZ	Repair Nasopharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QN7ZZ	Repair Nasopharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
09QN8ZZ	Repair Nasopharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QP0ZZ	Repair Accessory Sinus, Open Approach	PX	ICD-10-PCS
09QP3ZZ	Repair Accessory Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QP4ZZ	Repair Accessory Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QP8ZZ	Repair Accessory Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QQ0ZZ	Repair Right Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09QQ3ZZ	Repair Right Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QQ4ZZ	Repair Right Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QQ8ZZ	Repair Right Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QR0ZZ	Repair Left Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09QR3ZZ	Repair Left Maxillary Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QR4ZZ	Repair Left Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QR8ZZ	Repair Left Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QS0ZZ	Repair Right Frontal Sinus, Open Approach	PX	ICD-10-PCS
09QS3ZZ	Repair Right Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QS4ZZ	Repair Right Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QS8ZZ	Repair Right Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QT0ZZ	Repair Left Frontal Sinus, Open Approach	PX	ICD-10-PCS
09QT3ZZ	Repair Left Frontal Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QT4ZZ	Repair Left Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QT8ZZ	Repair Left Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QU0ZZ	Repair Right Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09QU3ZZ	Repair Right Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QU4ZZ	Repair Right Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QU8ZZ	Repair Right Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QV0ZZ	Repair Left Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09QV3ZZ	Repair Left Ethmoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QV4ZZ	Repair Left Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QV8ZZ	Repair Left Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QW0ZZ	Repair Right Sphenoid Sinus, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09QW3ZZ	Repair Right Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QW4ZZ	Repair Right Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QW8ZZ	Repair Right Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09QX0ZZ	Repair Left Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09QX3ZZ	Repair Left Sphenoid Sinus, Percutaneous Approach	PX	ICD-10-PCS
09QX4ZZ	Repair Left Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09QX8ZZ	Repair Left Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09R007Z	Replacement of Right External Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R00JZ	Replacement of Right External Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09R00KZ	Replacement of Right External Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R0X7Z	Replacement of Right External Ear with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09R0XJZ	Replacement of Right External Ear with Synthetic Substitute, External Approach	PX	ICD-10-PCS
09R0XKZ	Replacement of Right External Ear with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09R107Z	Replacement of Left External Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R10JZ	Replacement of Left External Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09R10KZ	Replacement of Left External Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R1X7Z	Replacement of Left External Ear with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09R1XJZ	Replacement of Left External Ear with Synthetic Substitute, External Approach	PX	ICD-10-PCS
09R1XKZ	Replacement of Left External Ear with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09R207Z	Replacement of Bilateral External Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R20JZ	Replacement of Bilateral External Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09R20KZ	Replacement of Bilateral External Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R2X7Z	Replacement of Bilateral External Ear with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09R2XJZ	Replacement of Bilateral External Ear with Synthetic Substitute, External Approach	PX	ICD-10-PCS
09R2XKZ	Replacement of Bilateral External Ear with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09R507Z	Replacement of Right Middle Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R50JZ	Replacement of Right Middle Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09R50KZ	Replacement of Right Middle Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R607Z	Replacement of Left Middle Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09R60JZ	Replacement of Left Middle Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09R60KZ	Replacement of Left Middle Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R707Z	Replacement of Right Tympanic Membrane with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R70JZ	Replacement of Right Tympanic Membrane with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09R70KZ	Replacement of Right Tympanic Membrane with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R777Z	Replacement of Right Tympanic Membrane with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09R77JZ	Replacement of Right Tympanic Membrane with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09R77KZ	Replacement of Right Tympanic Membrane with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09R787Z	Replacement of Right Tympanic Membrane with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09R78JZ	Replacement of Right Tympanic Membrane with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09R78KZ	Replacement of Right Tympanic Membrane with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09R807Z	Replacement of Left Tympanic Membrane with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R80JZ	Replacement of Left Tympanic Membrane with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09R80KZ	Replacement of Left Tympanic Membrane with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R877Z	Replacement of Left Tympanic Membrane with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09R87JZ	Replacement of Left Tympanic Membrane with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09R87KZ	Replacement of Left Tympanic Membrane with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09R887Z	Replacement of Left Tympanic Membrane with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09R88JZ	Replacement of Left Tympanic Membrane with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09R88KZ	Replacement of Left Tympanic Membrane with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09R907Z	Replacement of Right Auditory Ossicle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09R90JZ	Replacement of Right Auditory Ossicle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09R90KZ	Replacement of Right Auditory Ossicle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09RA07Z	Replacement of Left Auditory Ossicle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RA0JZ	Replacement of Left Auditory Ossicle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09RA0KZ	Replacement of Left Auditory Ossicle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RD07Z	Replacement of Right Inner Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RD0JZ	Replacement of Right Inner Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09RD0KZ	Replacement of Right Inner Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RE07Z	Replacement of Left Inner Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RE0JZ	Replacement of Left Inner Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09RE0KZ	Replacement of Left Inner Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RK07Z	Replacement of Nasal Mucosa and Soft Tissue with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RK0JZ	Replacement of Nasal Mucosa and Soft Tissue with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09RK0KZ	Replacement of Nasal Mucosa and Soft Tissue with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RKX7Z	Replacement of Nasal Mucosa and Soft Tissue with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09RKXJZ	Replacement of Nasal Mucosa and Soft Tissue with Synthetic Substitute, External Approach	PX	ICD-10-PCS
09RKXKZ	Replacement of Nasal Mucosa and Soft Tissue with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09RL07Z	Replacement of Nasal Turbinate with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RL0JZ	Replacement of Nasal Turbinate with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09RL0KZ	Replacement of Nasal Turbinate with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RL37Z	Replacement of Nasal Turbinate with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09RL3JZ	Replacement of Nasal Turbinate with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09RL3KZ	Replacement of Nasal Turbinate with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09RL47Z	Replacement of Nasal Turbinate with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09RL4JZ	Replacement of Nasal Turbinate with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09RL4KZ	Replacement of Nasal Turbinate with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09RL77Z	Replacement of Nasal Turbinate with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09RL7JZ	Replacement of Nasal Turbinate with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09RL7KZ	Replacement of Nasal Turbinate with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09RL87Z	Replacement of Nasal Turbinate with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09RL8JZ	Replacement of Nasal Turbinate with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09RL8KZ	Replacement of Nasal Turbinate with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09RM07Z	Replacement of Nasal Septum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RM0JZ	Replacement of Nasal Septum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09RM0KZ	Replacement of Nasal Septum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RM37Z	Replacement of Nasal Septum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09RM3JZ	Replacement of Nasal Septum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09RM3KZ	Replacement of Nasal Septum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09RM47Z	Replacement of Nasal Septum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09RM4JZ	Replacement of Nasal Septum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09RM4KZ	Replacement of Nasal Septum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09RN07Z	Replacement of Nasopharynx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RN0JZ	Replacement of Nasopharynx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09RN0KZ	Replacement of Nasopharynx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09RN77Z	Replacement of Nasopharynx with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09RN7JZ	Replacement of Nasopharynx with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09RN7KZ	Replacement of Nasopharynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09RN87Z	Replacement of Nasopharynx with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09RN8JZ	Replacement of Nasopharynx with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09RN8KZ	Replacement of Nasopharynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09S00ZZ	Reposition Right External Ear, Open Approach	PX	ICD-10-PCS
09S04ZZ	Reposition Right External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09S0XZZ	Reposition Right External Ear, External Approach	PX	ICD-10-PCS
09S10ZZ	Reposition Left External Ear, Open Approach	PX	ICD-10-PCS
09S14ZZ	Reposition Left External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09S1XZZ	Reposition Left External Ear, External Approach	PX	ICD-10-PCS
09S20ZZ	Reposition Bilateral External Ear, Open Approach	PX	ICD-10-PCS
09S24ZZ	Reposition Bilateral External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09S2XZZ	Reposition Bilateral External Ear, External Approach	PX	ICD-10-PCS
09S70ZZ	Reposition Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09S74ZZ	Reposition Right Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09S77ZZ	Reposition Right Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09S78ZZ	Reposition Right Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09S80ZZ	Reposition Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09S84ZZ	Reposition Left Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09S87ZZ	Reposition Left Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09S88ZZ	Reposition Left Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09S90ZZ	Reposition Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09S94ZZ	Reposition Right Auditory Ossicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09SA0ZZ	Reposition Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09SA4ZZ	Reposition Left Auditory Ossicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09SF0ZZ	Reposition Right Eustachian Tube, Open Approach	PX	ICD-10-PCS
09SF4ZZ	Reposition Right Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09SG0ZZ	Reposition Left Eustachian Tube, Open Approach	PX	ICD-10-PCS
09SG4ZZ	Reposition Left Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09SK0ZZ	Reposition Nasal Mucosa and Soft Tissue, Open Approach	PX	ICD-10-PCS
09SK4ZZ	Reposition Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09SKXZZ	Reposition Nasal Mucosa and Soft Tissue, External Approach	PX	ICD-10-PCS
09SL0ZZ	Reposition Nasal Turbinate, Open Approach	PX	ICD-10-PCS
09SL4ZZ	Reposition Nasal Turbinate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09SL7ZZ	Reposition Nasal Turbinate, Via Natural or Artificial Opening	PX	ICD-10-PCS
09SL8ZZ	Reposition Nasal Turbinate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09SM0ZZ	Reposition Nasal Septum, Open Approach	PX	ICD-10-PCS
09SM4ZZ	Reposition Nasal Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09T00ZZ	Resection of Right External Ear, Open Approach	PX	ICD-10-PCS
09T04ZZ	Resection of Right External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09T0XZZ	Resection of Right External Ear, External Approach	PX	ICD-10-PCS
09T10ZZ	Resection of Left External Ear, Open Approach	PX	ICD-10-PCS
09T14ZZ	Resection of Left External Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09T1XZZ	Resection of Left External Ear, External Approach	PX	ICD-10-PCS
09T50ZZ	Resection of Right Middle Ear, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09T58ZZ	Resection of Right Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09T60ZZ	Resection of Left Middle Ear, Open Approach	PX	ICD-10-PCS
09T68ZZ	Resection of Left Middle Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09T70ZZ	Resection of Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09T74ZZ	Resection of Right Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09T77ZZ	Resection of Right Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09T78ZZ	Resection of Right Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09T80ZZ	Resection of Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09T84ZZ	Resection of Left Tympanic Membrane, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09T87ZZ	Resection of Left Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09T88ZZ	Resection of Left Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09T90ZZ	Resection of Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09T98ZZ	Resection of Right Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TA0ZZ	Resection of Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09TA8ZZ	Resection of Left Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TB0ZZ	Resection of Right Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09TB4ZZ	Resection of Right Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TB8ZZ	Resection of Right Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TC0ZZ	Resection of Left Mastoid Sinus, Open Approach	PX	ICD-10-PCS
09TC4ZZ	Resection of Left Mastoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TC8ZZ	Resection of Left Mastoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TD0ZZ	Resection of Right Inner Ear, Open Approach	PX	ICD-10-PCS
09TD8ZZ	Resection of Right Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TE0ZZ	Resection of Left Inner Ear, Open Approach	PX	ICD-10-PCS
09TE8ZZ	Resection of Left Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TF0ZZ	Resection of Right Eustachian Tube, Open Approach	PX	ICD-10-PCS
09TF4ZZ	Resection of Right Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TG0ZZ	Resection of Left Eustachian Tube, Open Approach	PX	ICD-10-PCS
09TG4ZZ	Resection of Left Eustachian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TK0ZZ	Resection of Nasal Mucosa and Soft Tissue, Open Approach	PX	ICD-10-PCS
09TK4ZZ	Resection of Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TK8ZZ	Resection of Nasal Mucosa and Soft Tissue, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TKXZZ	Resection of Nasal Mucosa and Soft Tissue, External Approach	PX	ICD-10-PCS
09TL0ZZ	Resection of Nasal Turbinate, Open Approach	PX	ICD-10-PCS
09TL4ZZ	Resection of Nasal Turbinate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TL7ZZ	Resection of Nasal Turbinate, Via Natural or Artificial Opening	PX	ICD-10-PCS
09TL8ZZ	Resection of Nasal Turbinate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TM0ZZ	Resection of Nasal Septum, Open Approach	PX	ICD-10-PCS
09TM4ZZ	Resection of Nasal Septum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TM8ZZ	Resection of Nasal Septum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TN0ZZ	Resection of Nasopharynx, Open Approach	PX	ICD-10-PCS
09TN4ZZ	Resection of Nasopharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09TN7ZZ	Resection of Nasopharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
09TN8ZZ	Resection of Nasopharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TP0ZZ	Resection of Accessory Sinus, Open Approach	PX	ICD-10-PCS
09TP4ZZ	Resection of Accessory Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TP8ZZ	Resection of Accessory Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TQ0ZZ	Resection of Right Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09TQ4ZZ	Resection of Right Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TQ8ZZ	Resection of Right Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TR0ZZ	Resection of Left Maxillary Sinus, Open Approach	PX	ICD-10-PCS
09TR4ZZ	Resection of Left Maxillary Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TR8ZZ	Resection of Left Maxillary Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TS0ZZ	Resection of Right Frontal Sinus, Open Approach	PX	ICD-10-PCS
09TS4ZZ	Resection of Right Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TS8ZZ	Resection of Right Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TT0ZZ	Resection of Left Frontal Sinus, Open Approach	PX	ICD-10-PCS
09TT4ZZ	Resection of Left Frontal Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TT8ZZ	Resection of Left Frontal Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TU0ZZ	Resection of Right Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09TU4ZZ	Resection of Right Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TU8ZZ	Resection of Right Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TV0ZZ	Resection of Left Ethmoid Sinus, Open Approach	PX	ICD-10-PCS
09TV4ZZ	Resection of Left Ethmoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TV8ZZ	Resection of Left Ethmoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TW0ZZ	Resection of Right Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09TW4ZZ	Resection of Right Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TW8ZZ	Resection of Right Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09TX0ZZ	Resection of Left Sphenoid Sinus, Open Approach	PX	ICD-10-PCS
09TX4ZZ	Resection of Left Sphenoid Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09TX8ZZ	Resection of Left Sphenoid Sinus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U007Z	Supplement Right External Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U00JZ	Supplement Right External Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09U00KZ	Supplement Right External Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U0X7Z	Supplement Right External Ear with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09U0XJZ	Supplement Right External Ear with Synthetic Substitute, External Approach	PX	ICD-10-PCS
09U0XKZ	Supplement Right External Ear with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09U107Z	Supplement Left External Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U10JZ	Supplement Left External Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09U10KZ	Supplement Left External Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09U1X7Z	Supplement Left External Ear with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09U1XJZ	Supplement Left External Ear with Synthetic Substitute, External Approach	PX	ICD-10-PCS
09U1XKZ	Supplement Left External Ear with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09U207Z	Supplement Bilateral External Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U20JZ	Supplement Bilateral External Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09U20KZ	Supplement Bilateral External Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U2X7Z	Supplement Bilateral External Ear with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09U2XJZ	Supplement Bilateral External Ear with Synthetic Substitute, External Approach	PX	ICD-10-PCS
09U2XKZ	Supplement Bilateral External Ear with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09U507Z	Supplement Right Middle Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U50JZ	Supplement Right Middle Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09U50KZ	Supplement Right Middle Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U587Z	Supplement Right Middle Ear with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U58JZ	Supplement Right Middle Ear with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U58KZ	Supplement Right Middle Ear with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U607Z	Supplement Left Middle Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U60JZ	Supplement Left Middle Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09U60KZ	Supplement Left Middle Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U687Z	Supplement Left Middle Ear with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U68JZ	Supplement Left Middle Ear with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U68KZ	Supplement Left Middle Ear with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U707Z	Supplement Right Tympanic Membrane with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U70JZ	Supplement Right Tympanic Membrane with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09U70KZ	Supplement Right Tympanic Membrane with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U777Z	Supplement Right Tympanic Membrane with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09U77JZ	Supplement Right Tympanic Membrane with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09U77KZ	Supplement Right Tympanic Membrane with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09U787Z	Supplement Right Tympanic Membrane with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U78JZ	Supplement Right Tympanic Membrane with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U78KZ	Supplement Right Tympanic Membrane with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U807Z	Supplement Left Tympanic Membrane with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U80JZ	Supplement Left Tympanic Membrane with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09U80KZ	Supplement Left Tympanic Membrane with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U877Z	Supplement Left Tympanic Membrane with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09U87JZ	Supplement Left Tympanic Membrane with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09U87KZ	Supplement Left Tympanic Membrane with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09U887Z	Supplement Left Tympanic Membrane with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U88JZ	Supplement Left Tympanic Membrane with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U88KZ	Supplement Left Tympanic Membrane with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U907Z	Supplement Right Auditory Ossicle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U90JZ	Supplement Right Auditory Ossicle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09U90KZ	Supplement Right Auditory Ossicle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09U987Z	Supplement Right Auditory Ossicle with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U98JZ	Supplement Right Auditory Ossicle with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09U98KZ	Supplement Right Auditory Ossicle with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UA07Z	Supplement Left Auditory Ossicle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UA0JZ	Supplement Left Auditory Ossicle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UA0KZ	Supplement Left Auditory Ossicle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09UA87Z	Supplement Left Auditory Ossicle with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UA8JZ	Supplement Left Auditory Ossicle with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UA8KZ	Supplement Left Auditory Ossicle with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UB07Z	Supplement Right Mastoid Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UB0JZ	Supplement Right Mastoid Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UB0KZ	Supplement Right Mastoid Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UB37Z	Supplement Right Mastoid Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UB3JZ	Supplement Right Mastoid Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UB3KZ	Supplement Right Mastoid Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UB47Z	Supplement Right Mastoid Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UB4JZ	Supplement Right Mastoid Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UB4KZ	Supplement Right Mastoid Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UB77Z	Supplement Right Mastoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UB7JZ	Supplement Right Mastoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UB7KZ	Supplement Right Mastoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UB87Z	Supplement Right Mastoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UB8JZ	Supplement Right Mastoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UB8KZ	Supplement Right Mastoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UC07Z	Supplement Left Mastoid Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UC0JZ	Supplement Left Mastoid Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UC0KZ	Supplement Left Mastoid Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UC37Z	Supplement Left Mastoid Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UC3JZ	Supplement Left Mastoid Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09UC3KZ	Supplement Left Mastoid Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UC47Z	Supplement Left Mastoid Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UC4JZ	Supplement Left Mastoid Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UC4KZ	Supplement Left Mastoid Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UC77Z	Supplement Left Mastoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UC7JZ	Supplement Left Mastoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UC7KZ	Supplement Left Mastoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UC87Z	Supplement Left Mastoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UC8JZ	Supplement Left Mastoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UC8KZ	Supplement Left Mastoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UD07Z	Supplement Right Inner Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UD0JZ	Supplement Right Inner Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UD0KZ	Supplement Right Inner Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UD87Z	Supplement Right Inner Ear with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UD8JZ	Supplement Right Inner Ear with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UD8KZ	Supplement Right Inner Ear with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UE07Z	Supplement Left Inner Ear with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UE0JZ	Supplement Left Inner Ear with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UE0KZ	Supplement Left Inner Ear with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UE87Z	Supplement Left Inner Ear with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UE8JZ	Supplement Left Inner Ear with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UE8KZ	Supplement Left Inner Ear with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UK07Z	Supplement Nasal Mucosa and Soft Tissue with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UK0JZ	Supplement Nasal Mucosa and Soft Tissue with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09UK0KZ	Supplement Nasal Mucosa and Soft Tissue with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UK87Z	Supplement Nasal Mucosa and Soft Tissue with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UK8JZ	Supplement Nasal Mucosa and Soft Tissue with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UK8KZ	Supplement Nasal Mucosa and Soft Tissue with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UKX7Z	Supplement Nasal Mucosa and Soft Tissue with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09UKXJZ	Supplement Nasal Mucosa and Soft Tissue with Synthetic Substitute, External Approach	PX	ICD-10-PCS
09UKXKZ	Supplement Nasal Mucosa and Soft Tissue with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
09UL07Z	Supplement Nasal Turbinate with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UL0JZ	Supplement Nasal Turbinate with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UL0KZ	Supplement Nasal Turbinate with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UL37Z	Supplement Nasal Turbinate with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UL3JZ	Supplement Nasal Turbinate with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UL3KZ	Supplement Nasal Turbinate with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UL47Z	Supplement Nasal Turbinate with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UL4JZ	Supplement Nasal Turbinate with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UL4KZ	Supplement Nasal Turbinate with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UL77Z	Supplement Nasal Turbinate with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UL7JZ	Supplement Nasal Turbinate with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UL7KZ	Supplement Nasal Turbinate with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UL87Z	Supplement Nasal Turbinate with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UL8JZ	Supplement Nasal Turbinate with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UL8KZ	Supplement Nasal Turbinate with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UM07Z	Supplement Nasal Septum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UM0JZ	Supplement Nasal Septum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UM0KZ	Supplement Nasal Septum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09UM37Z	Supplement Nasal Septum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UM3JZ	Supplement Nasal Septum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UM3KZ	Supplement Nasal Septum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UM47Z	Supplement Nasal Septum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UM4JZ	Supplement Nasal Septum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UM4KZ	Supplement Nasal Septum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UM87Z	Supplement Nasal Septum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UM8JZ	Supplement Nasal Septum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UM8KZ	Supplement Nasal Septum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UN07Z	Supplement Nasopharynx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UN0JZ	Supplement Nasopharynx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UN0KZ	Supplement Nasopharynx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UN77Z	Supplement Nasopharynx with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UN7JZ	Supplement Nasopharynx with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UN7KZ	Supplement Nasopharynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UN87Z	Supplement Nasopharynx with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UN8JZ	Supplement Nasopharynx with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UN8KZ	Supplement Nasopharynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UP07Z	Supplement Accessory Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UP0JZ	Supplement Accessory Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UP0KZ	Supplement Accessory Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UP37Z	Supplement Accessory Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UP3JZ	Supplement Accessory Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UP3KZ	Supplement Accessory Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UP47Z	Supplement Accessory Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09UP4JZ	Supplement Accessory Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UP4KZ	Supplement Accessory Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UP77Z	Supplement Accessory Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UP7JZ	Supplement Accessory Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UP7KZ	Supplement Accessory Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UP87Z	Supplement Accessory Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UP8JZ	Supplement Accessory Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UP8KZ	Supplement Accessory Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UQ07Z	Supplement Right Maxillary Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UQ0JZ	Supplement Right Maxillary Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UQ0KZ	Supplement Right Maxillary Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UQ37Z	Supplement Right Maxillary Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UQ3JZ	Supplement Right Maxillary Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UQ3KZ	Supplement Right Maxillary Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UQ47Z	Supplement Right Maxillary Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UQ4JZ	Supplement Right Maxillary Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UQ4KZ	Supplement Right Maxillary Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UQ77Z	Supplement Right Maxillary Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UQ7JZ	Supplement Right Maxillary Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UQ7KZ	Supplement Right Maxillary Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UQ87Z	Supplement Right Maxillary Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UQ8JZ	Supplement Right Maxillary Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UQ8KZ	Supplement Right Maxillary Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09UR07Z	Supplement Left Maxillary Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UR0JZ	Supplement Left Maxillary Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UR0KZ	Supplement Left Maxillary Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UR37Z	Supplement Left Maxillary Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UR3JZ	Supplement Left Maxillary Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UR3KZ	Supplement Left Maxillary Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UR47Z	Supplement Left Maxillary Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UR4JZ	Supplement Left Maxillary Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UR4KZ	Supplement Left Maxillary Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UR77Z	Supplement Left Maxillary Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UR7JZ	Supplement Left Maxillary Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UR7KZ	Supplement Left Maxillary Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UR87Z	Supplement Left Maxillary Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UR8JZ	Supplement Left Maxillary Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UR8KZ	Supplement Left Maxillary Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09US07Z	Supplement Right Frontal Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09US0JZ	Supplement Right Frontal Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09US0KZ	Supplement Right Frontal Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09US37Z	Supplement Right Frontal Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09US3JZ	Supplement Right Frontal Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09US3KZ	Supplement Right Frontal Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09US47Z	Supplement Right Frontal Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09US4JZ	Supplement Right Frontal Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09US4KZ	Supplement Right Frontal Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09US77Z	Supplement Right Frontal Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09US7JZ	Supplement Right Frontal Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09US7KZ	Supplement Right Frontal Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09US87Z	Supplement Right Frontal Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09US8JZ	Supplement Right Frontal Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09US8KZ	Supplement Right Frontal Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UT07Z	Supplement Left Frontal Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UT0JZ	Supplement Left Frontal Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UT0KZ	Supplement Left Frontal Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UT37Z	Supplement Left Frontal Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UT3JZ	Supplement Left Frontal Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UT3KZ	Supplement Left Frontal Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UT47Z	Supplement Left Frontal Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UT4JZ	Supplement Left Frontal Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UT4KZ	Supplement Left Frontal Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UT77Z	Supplement Left Frontal Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UT7JZ	Supplement Left Frontal Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UT7KZ	Supplement Left Frontal Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UT87Z	Supplement Left Frontal Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UT8JZ	Supplement Left Frontal Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UT8KZ	Supplement Left Frontal Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UU07Z	Supplement Right Ethmoid Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09UU0JZ	Supplement Right Ethmoid Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UU0KZ	Supplement Right Ethmoid Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UU37Z	Supplement Right Ethmoid Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UU3JZ	Supplement Right Ethmoid Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UU3KZ	Supplement Right Ethmoid Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UU47Z	Supplement Right Ethmoid Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UU4JZ	Supplement Right Ethmoid Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UU4KZ	Supplement Right Ethmoid Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UU77Z	Supplement Right Ethmoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UU7JZ	Supplement Right Ethmoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UU7KZ	Supplement Right Ethmoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UU87Z	Supplement Right Ethmoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UU8JZ	Supplement Right Ethmoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UU8KZ	Supplement Right Ethmoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UV07Z	Supplement Left Ethmoid Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UV0JZ	Supplement Left Ethmoid Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UV0KZ	Supplement Left Ethmoid Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UV37Z	Supplement Left Ethmoid Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UV3JZ	Supplement Left Ethmoid Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UV3KZ	Supplement Left Ethmoid Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UV47Z	Supplement Left Ethmoid Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UV4JZ	Supplement Left Ethmoid Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UV4KZ	Supplement Left Ethmoid Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09UV77Z	Supplement Left Ethmoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UV7JZ	Supplement Left Ethmoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UV7KZ	Supplement Left Ethmoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UV87Z	Supplement Left Ethmoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UV8JZ	Supplement Left Ethmoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UV8KZ	Supplement Left Ethmoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UW07Z	Supplement Right Sphenoid Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UW0JZ	Supplement Right Sphenoid Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
09UW0KZ	Supplement Right Sphenoid Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UW37Z	Supplement Right Sphenoid Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UW3JZ	Supplement Right Sphenoid Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UW3KZ	Supplement Right Sphenoid Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UW47Z	Supplement Right Sphenoid Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UW4JZ	Supplement Right Sphenoid Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UW4KZ	Supplement Right Sphenoid Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UW77Z	Supplement Right Sphenoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UW7JZ	Supplement Right Sphenoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UW7KZ	Supplement Right Sphenoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UW87Z	Supplement Right Sphenoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UW8JZ	Supplement Right Sphenoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UW8KZ	Supplement Right Sphenoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UX07Z	Supplement Left Sphenoid Sinus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UX0JZ	Supplement Left Sphenoid Sinus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09UX0KZ	Supplement Left Sphenoid Sinus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
09UX37Z	Supplement Left Sphenoid Sinus with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UX3JZ	Supplement Left Sphenoid Sinus with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UX3KZ	Supplement Left Sphenoid Sinus with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
09UX47Z	Supplement Left Sphenoid Sinus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UX4JZ	Supplement Left Sphenoid Sinus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UX4KZ	Supplement Left Sphenoid Sinus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09UX77Z	Supplement Left Sphenoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UX7JZ	Supplement Left Sphenoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UX7KZ	Supplement Left Sphenoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
09UX87Z	Supplement Left Sphenoid Sinus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UX8JZ	Supplement Left Sphenoid Sinus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09UX8KZ	Supplement Left Sphenoid Sinus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09W707Z	Revision of Autologous Tissue Substitute in Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09W70JZ	Revision of Synthetic Substitute in Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09W70KZ	Revision of Nonautologous Tissue Substitute in Right Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09W777Z	Revision of Autologous Tissue Substitute in Right Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09W77JZ	Revision of Synthetic Substitute in Right Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09W77KZ	Revision of Nonautologous Tissue Substitute in Right Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09W787Z	Revision of Autologous Tissue Substitute in Right Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09W78JZ	Revision of Synthetic Substitute in Right Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09W78KZ	Revision of Nonautologous Tissue Substitute in Right Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09W807Z	Revision of Autologous Tissue Substitute in Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09W80JZ	Revision of Synthetic Substitute in Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09W80KZ	Revision of Nonautologous Tissue Substitute in Left Tympanic Membrane, Open Approach	PX	ICD-10-PCS
09W877Z	Revision of Autologous Tissue Substitute in Left Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09W87JZ	Revision of Synthetic Substitute in Left Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09W87KZ	Revision of Nonautologous Tissue Substitute in Left Tympanic Membrane, Via Natural or Artificial Opening	PX	ICD-10-PCS
09W887Z	Revision of Autologous Tissue Substitute in Left Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09W88JZ	Revision of Synthetic Substitute in Left Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09W88KZ	Revision of Nonautologous Tissue Substitute in Left Tympanic Membrane, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09W907Z	Revision of Autologous Tissue Substitute in Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09W90JZ	Revision of Synthetic Substitute in Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09W90KZ	Revision of Nonautologous Tissue Substitute in Right Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09W977Z	Revision of Autologous Tissue Substitute in Right Auditory Ossicle, Via Natural or Artificial Opening	PX	ICD-10-PCS
09W97JZ	Revision of Synthetic Substitute in Right Auditory Ossicle, Via Natural or Artificial Opening	PX	ICD-10-PCS
09W97KZ	Revision of Nonautologous Tissue Substitute in Right Auditory Ossicle, Via Natural or Artificial Opening	PX	ICD-10-PCS
09W987Z	Revision of Autologous Tissue Substitute in Right Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09W98JZ	Revision of Synthetic Substitute in Right Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09W98KZ	Revision of Nonautologous Tissue Substitute in Right Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WA07Z	Revision of Autologous Tissue Substitute in Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09WA0JZ	Revision of Synthetic Substitute in Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09WA0KZ	Revision of Nonautologous Tissue Substitute in Left Auditory Ossicle, Open Approach	PX	ICD-10-PCS
09WA77Z	Revision of Autologous Tissue Substitute in Left Auditory Ossicle, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WA7JZ	Revision of Synthetic Substitute in Left Auditory Ossicle, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WA7KZ	Revision of Nonautologous Tissue Substitute in Left Auditory Ossicle, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WA87Z	Revision of Autologous Tissue Substitute in Left Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09WA8JZ	Revision of Synthetic Substitute in Left Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WA8KZ	Revision of Nonautologous Tissue Substitute in Left Auditory Ossicle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WD0SZ	Revision of Hearing Device in Right Inner Ear, Open Approach	PX	ICD-10-PCS
09WD7SZ	Revision of Hearing Device in Right Inner Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WD8SZ	Revision of Hearing Device in Right Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WE0SZ	Revision of Hearing Device in Left Inner Ear, Open Approach	PX	ICD-10-PCS
09WE7SZ	Revision of Hearing Device in Left Inner Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WE8SZ	Revision of Hearing Device in Left Inner Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WH00Z	Revision of Drainage Device in Right Ear, Open Approach	PX	ICD-10-PCS
09WH07Z	Revision of Autologous Tissue Substitute in Right Ear, Open Approach	PX	ICD-10-PCS
09WH0DZ	Revision of Intraluminal Device in Right Ear, Open Approach	PX	ICD-10-PCS
09WH0JZ	Revision of Synthetic Substitute in Right Ear, Open Approach	PX	ICD-10-PCS
09WH0KZ	Revision of Nonautologous Tissue Substitute in Right Ear, Open Approach	PX	ICD-10-PCS
09WH0YZ	Revision of Other Device in Right Ear, Open Approach	PX	ICD-10-PCS
09WH30Z	Revision of Drainage Device in Right Ear, Percutaneous Approach	PX	ICD-10-PCS
09WH37Z	Revision of Autologous Tissue Substitute in Right Ear, Percutaneous Approach	PX	ICD-10-PCS
09WH3DZ	Revision of Intraluminal Device in Right Ear, Percutaneous Approach	PX	ICD-10-PCS
09WH40Z	Revision of Drainage Device in Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WH47Z	Revision of Autologous Tissue Substitute in Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WH4DZ	Revision of Intraluminal Device in Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WH4JZ	Revision of Synthetic Substitute in Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WH4KZ	Revision of Nonautologous Tissue Substitute in Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WH4YZ	Revision of Other Device in Right Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WH70Z	Revision of Drainage Device in Right Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WH77Z	Revision of Autologous Tissue Substitute in Right Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WH7JZ	Revision of Synthetic Substitute in Right Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WH7KZ	Revision of Nonautologous Tissue Substitute in Right Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WH80Z	Revision of Drainage Device in Right Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WH87Z	Revision of Autologous Tissue Substitute in Right Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WH8JZ	Revision of Synthetic Substitute in Right Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WH8KZ	Revision of Nonautologous Tissue Substitute in Right Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WJ00Z	Revision of Drainage Device in Left Ear, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09WJ07Z	Revision of Autologous Tissue Substitute in Left Ear, Open Approach	PX	ICD-10-PCS
09WJ0DZ	Revision of Intraluminal Device in Left Ear, Open Approach	PX	ICD-10-PCS
09WJ0JZ	Revision of Synthetic Substitute in Left Ear, Open Approach	PX	ICD-10-PCS
09WJ0KZ	Revision of Nonautologous Tissue Substitute in Left Ear, Open Approach	PX	ICD-10-PCS
09WJ0YZ	Revision of Other Device in Left Ear, Open Approach	PX	ICD-10-PCS
09WJ30Z	Revision of Drainage Device in Left Ear, Percutaneous Approach	PX	ICD-10-PCS
09WJ37Z	Revision of Autologous Tissue Substitute in Left Ear, Percutaneous Approach	PX	ICD-10-PCS
09WJ3DZ	Revision of Intraluminal Device in Left Ear, Percutaneous Approach	PX	ICD-10-PCS
09WJ40Z	Revision of Drainage Device in Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WJ47Z	Revision of Autologous Tissue Substitute in Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WJ4DZ	Revision of Intraluminal Device in Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WJ4JZ	Revision of Synthetic Substitute in Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WJ4KZ	Revision of Nonautologous Tissue Substitute in Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WJ4YZ	Revision of Other Device in Left Ear, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WJ70Z	Revision of Drainage Device in Left Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WJ77Z	Revision of Autologous Tissue Substitute in Left Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WJ7JZ	Revision of Synthetic Substitute in Left Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WJ7KZ	Revision of Nonautologous Tissue Substitute in Left Ear, Via Natural or Artificial Opening	PX	ICD-10-PCS
09WJ80Z	Revision of Drainage Device in Left Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WJ87Z	Revision of Autologous Tissue Substitute in Left Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WJ8JZ	Revision of Synthetic Substitute in Left Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WJ8KZ	Revision of Nonautologous Tissue Substitute in Left Ear, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
09WK40Z	Revision of Drainage Device in Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WK47Z	Revision of Autologous Tissue Substitute in Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WK4DZ	Revision of Intraluminal Device in Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WK4JZ	Revision of Synthetic Substitute in Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WK4KZ	Revision of Nonautologous Tissue Substitute in Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WK4YZ	Revision of Other Device in Nasal Mucosa and Soft Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WY00Z	Revision of Drainage Device in Sinus, Open Approach	PX	ICD-10-PCS
09WY0YZ	Revision of Other Device in Sinus, Open Approach	PX	ICD-10-PCS
09WY30Z	Revision of Drainage Device in Sinus, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
09WY3YZ	Revision of Other Device in Sinus, Percutaneous Approach	PX	ICD-10-PCS
09WY40Z	Revision of Drainage Device in Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
09WY4YZ	Revision of Other Device in Sinus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B110D6	Bypass Trachea to Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B110F4	Bypass Trachea to Cutaneous with Tracheostomy Device, Open Approach	PX	ICD-10-PCS
0B110Z4	Bypass Trachea to Cutaneous, Open Approach	PX	ICD-10-PCS
0B114F4	Bypass Trachea to Cutaneous with Tracheostomy Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B114Z4	Bypass Trachea to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B510ZZ	Destruction of Trachea, Open Approach	PX	ICD-10-PCS
0B513ZZ	Destruction of Trachea, Percutaneous Approach	PX	ICD-10-PCS
0B514ZZ	Destruction of Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B517ZZ	Destruction of Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B518ZZ	Destruction of Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0B520ZZ	Destruction of Carina, Open Approach	PX	ICD-10-PCS
0B523ZZ	Destruction of Carina, Percutaneous Approach	PX	ICD-10-PCS
0B524ZZ	Destruction of Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B527ZZ	Destruction of Carina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B528ZZ	Destruction of Carina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0B530ZZ	Destruction of Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0B533ZZ	Destruction of Right Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B534ZZ	Destruction of Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B537ZZ	Destruction of Right Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B540ZZ	Destruction of Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B543ZZ	Destruction of Right Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B544ZZ	Destruction of Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B547ZZ	Destruction of Right Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B550ZZ	Destruction of Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B553ZZ	Destruction of Right Middle Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B554ZZ	Destruction of Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B557ZZ	Destruction of Right Middle Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B560ZZ	Destruction of Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B563ZZ	Destruction of Right Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B564ZZ	Destruction of Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B567ZZ	Destruction of Right Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B570ZZ	Destruction of Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0B573ZZ	Destruction of Left Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B574ZZ	Destruction of Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B577ZZ	Destruction of Left Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B580ZZ	Destruction of Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B583ZZ	Destruction of Left Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B584ZZ	Destruction of Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B587ZZ	Destruction of Left Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B590ZZ	Destruction of Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0B593ZZ	Destruction of Lingula Bronchus, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0B594ZZ	Destruction of Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B597ZZ	Destruction of Lingula Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5B0ZZ	Destruction of Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B5B3ZZ	Destruction of Left Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B5B4ZZ	Destruction of Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5B7ZZ	Destruction of Left Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5C0Z3	Destruction of Right Upper Lung Lobe using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0B5C0ZZ	Destruction of Right Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0B5C3Z3	Destruction of Right Upper Lung Lobe using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0B5C3ZZ	Destruction of Right Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0B5C4Z3	Destruction of Right Upper Lung Lobe using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5C4ZZ	Destruction of Right Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5C7ZZ	Destruction of Right Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5D0Z3	Destruction of Right Middle Lung Lobe using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0B5D0ZZ	Destruction of Right Middle Lung Lobe, Open Approach	PX	ICD-10-PCS
0B5D3Z3	Destruction of Right Middle Lung Lobe using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0B5D3ZZ	Destruction of Right Middle Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0B5D4Z3	Destruction of Right Middle Lung Lobe using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5D4ZZ	Destruction of Right Middle Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5D7ZZ	Destruction of Right Middle Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5F0Z3	Destruction of Right Lower Lung Lobe using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0B5F0ZZ	Destruction of Right Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0B5F3Z3	Destruction of Right Lower Lung Lobe using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0B5F3ZZ	Destruction of Right Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0B5F4Z3	Destruction of Right Lower Lung Lobe using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5F4ZZ	Destruction of Right Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5F7ZZ	Destruction of Right Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5G0Z3	Destruction of Left Upper Lung Lobe using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0B5G0ZZ	Destruction of Left Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0B5G3Z3	Destruction of Left Upper Lung Lobe using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0B5G3ZZ	Destruction of Left Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0B5G4Z3	Destruction of Left Upper Lung Lobe using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5G4ZZ	Destruction of Left Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0B5G7ZZ	Destruction of Left Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5H0Z3	Destruction of Lung Lingula using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0B5H0ZZ	Destruction of Lung Lingula, Open Approach	PX	ICD-10-PCS
0B5H3Z3	Destruction of Lung Lingula using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0B5H3ZZ	Destruction of Lung Lingula, Percutaneous Approach	PX	ICD-10-PCS
0B5H4Z3	Destruction of Lung Lingula using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5H4ZZ	Destruction of Lung Lingula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5H7ZZ	Destruction of Lung Lingula, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5J0Z3	Destruction of Left Lower Lung Lobe using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0B5J0ZZ	Destruction of Left Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0B5J3Z3	Destruction of Left Lower Lung Lobe using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0B5J3ZZ	Destruction of Left Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0B5J4Z3	Destruction of Left Lower Lung Lobe using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5J4ZZ	Destruction of Left Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5J7ZZ	Destruction of Left Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5K0Z3	Destruction of Right Lung using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0B5K0ZZ	Destruction of Right Lung, Open Approach	PX	ICD-10-PCS
0B5K3Z3	Destruction of Right Lung using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0B5K3ZZ	Destruction of Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0B5K4Z3	Destruction of Right Lung using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5K4ZZ	Destruction of Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5K7ZZ	Destruction of Right Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5L0Z3	Destruction of Left Lung using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0B5L0ZZ	Destruction of Left Lung, Open Approach	PX	ICD-10-PCS
0B5L3Z3	Destruction of Left Lung using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0B5L3ZZ	Destruction of Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0B5L4Z3	Destruction of Left Lung using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5L4ZZ	Destruction of Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5L7ZZ	Destruction of Left Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5M0Z3	Destruction of Bilateral Lungs using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0B5M0ZZ	Destruction of Bilateral Lungs, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0B5M3Z3	Destruction of Bilateral Lungs using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0B5M3ZZ	Destruction of Bilateral Lungs, Percutaneous Approach	PX	ICD-10-PCS
0B5M4Z3	Destruction of Bilateral Lungs using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5M4ZZ	Destruction of Bilateral Lungs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5M7ZZ	Destruction of Bilateral Lungs, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B5N0ZZ	Destruction of Right Pleura, Open Approach	PX	ICD-10-PCS
0B5N3ZZ	Destruction of Right Pleura, Percutaneous Approach	PX	ICD-10-PCS
0B5N4ZZ	Destruction of Right Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5P0ZZ	Destruction of Left Pleura, Open Approach	PX	ICD-10-PCS
0B5P3ZZ	Destruction of Left Pleura, Percutaneous Approach	PX	ICD-10-PCS
0B5P4ZZ	Destruction of Left Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5R0ZZ	Destruction of Right Diaphragm, Open Approach	PX	ICD-10-PCS
0B5R3ZZ	Destruction of Right Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0B5R4ZZ	Destruction of Right Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5S0ZZ	Destruction of Left Diaphragm, Open Approach	PX	ICD-10-PCS
0B5S3ZZ	Destruction of Left Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0B5S4ZZ	Destruction of Left Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B5T0ZZ	Destruction of Diaphragm, Open Approach	PX	ICD-10-PCS
0B5T3ZZ	Destruction of Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0B5T4ZZ	Destruction of Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B710DZ	Dilation of Trachea with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B710ZZ	Dilation of Trachea, Open Approach	PX	ICD-10-PCS
0B713DZ	Dilation of Trachea with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0B713ZZ	Dilation of Trachea, Percutaneous Approach	PX	ICD-10-PCS
0B714DZ	Dilation of Trachea with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B714ZZ	Dilation of Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B717DZ	Dilation of Trachea with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B717ZZ	Dilation of Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B718DZ	Dilation of Trachea with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0B718ZZ	Dilation of Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0B720DZ	Dilation of Carina with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B720ZZ	Dilation of Carina, Open Approach	PX	ICD-10-PCS
0B723DZ	Dilation of Carina with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0B723ZZ	Dilation of Carina, Percutaneous Approach	PX	ICD-10-PCS
0B724DZ	Dilation of Carina with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B724ZZ	Dilation of Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B727DZ	Dilation of Carina with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B727ZZ	Dilation of Carina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B728DZ	Dilation of Carina with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0B728ZZ	Dilation of Carina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0B730DZ	Dilation of Right Main Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B730ZZ	Dilation of Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0B734DZ	Dilation of Right Main Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B734ZZ	Dilation of Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B740DZ	Dilation of Right Upper Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B740ZZ	Dilation of Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B744DZ	Dilation of Right Upper Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B744ZZ	Dilation of Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B750DZ	Dilation of Right Middle Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B750ZZ	Dilation of Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B754DZ	Dilation of Right Middle Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B754ZZ	Dilation of Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B760DZ	Dilation of Right Lower Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B760ZZ	Dilation of Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B764DZ	Dilation of Right Lower Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B764ZZ	Dilation of Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B770DZ	Dilation of Left Main Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B770ZZ	Dilation of Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0B774DZ	Dilation of Left Main Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B774ZZ	Dilation of Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B780DZ	Dilation of Left Upper Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B780ZZ	Dilation of Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B784DZ	Dilation of Left Upper Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B784ZZ	Dilation of Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B790DZ	Dilation of Lingula Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B790ZZ	Dilation of Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0B794DZ	Dilation of Lingula Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B794ZZ	Dilation of Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B7B0DZ	Dilation of Left Lower Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0B7B0ZZ	Dilation of Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B7B4DZ	Dilation of Left Lower Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B7B4ZZ	Dilation of Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9100Z	Drainage of Trachea with Drainage Device, Open Approach	PX	ICD-10-PCS
0B910ZZ	Drainage of Trachea, Open Approach	PX	ICD-10-PCS
0B9130Z	Drainage of Trachea with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B913ZZ	Drainage of Trachea, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0B9140Z	Drainage of Trachea with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B914ZZ	Drainage of Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9200Z	Drainage of Carina with Drainage Device, Open Approach	PX	ICD-10-PCS
0B920ZZ	Drainage of Carina, Open Approach	PX	ICD-10-PCS
0B9230Z	Drainage of Carina with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B923ZZ	Drainage of Carina, Percutaneous Approach	PX	ICD-10-PCS
0B9240Z	Drainage of Carina with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B924ZZ	Drainage of Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9300Z	Drainage of Right Main Bronchus with Drainage Device, Open Approach	PX	ICD-10-PCS
0B930ZZ	Drainage of Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0B9330Z	Drainage of Right Main Bronchus with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B933ZZ	Drainage of Right Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B9340Z	Drainage of Right Main Bronchus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B934ZZ	Drainage of Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9400Z	Drainage of Right Upper Lobe Bronchus with Drainage Device, Open Approach	PX	ICD-10-PCS
0B940ZZ	Drainage of Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B9430Z	Drainage of Right Upper Lobe Bronchus with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B943ZZ	Drainage of Right Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B9440Z	Drainage of Right Upper Lobe Bronchus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B944ZZ	Drainage of Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9500Z	Drainage of Right Middle Lobe Bronchus with Drainage Device, Open Approach	PX	ICD-10-PCS
0B950ZZ	Drainage of Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B9530Z	Drainage of Right Middle Lobe Bronchus with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B953ZZ	Drainage of Right Middle Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B9540Z	Drainage of Right Middle Lobe Bronchus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B954ZZ	Drainage of Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9600Z	Drainage of Right Lower Lobe Bronchus with Drainage Device, Open Approach	PX	ICD-10-PCS
0B960ZZ	Drainage of Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B9630Z	Drainage of Right Lower Lobe Bronchus with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B963ZZ	Drainage of Right Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B9640Z	Drainage of Right Lower Lobe Bronchus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B964ZZ	Drainage of Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9700Z	Drainage of Left Main Bronchus with Drainage Device, Open Approach	PX	ICD-10-PCS
0B970ZZ	Drainage of Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0B9730Z	Drainage of Left Main Bronchus with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B973ZZ	Drainage of Left Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B9740Z	Drainage of Left Main Bronchus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0B974ZZ	Drainage of Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9800Z	Drainage of Left Upper Lobe Bronchus with Drainage Device, Open Approach	PX	ICD-10-PCS
0B980ZZ	Drainage of Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B9830Z	Drainage of Left Upper Lobe Bronchus with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B983ZZ	Drainage of Left Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B9840Z	Drainage of Left Upper Lobe Bronchus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B984ZZ	Drainage of Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9900Z	Drainage of Lingula Bronchus with Drainage Device, Open Approach	PX	ICD-10-PCS
0B990ZZ	Drainage of Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0B9930Z	Drainage of Lingula Bronchus with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B993ZZ	Drainage of Lingula Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B9940Z	Drainage of Lingula Bronchus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B994ZZ	Drainage of Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9B00Z	Drainage of Left Lower Lobe Bronchus with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9B0ZZ	Drainage of Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0B9B30Z	Drainage of Left Lower Lobe Bronchus with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B9B3ZZ	Drainage of Left Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0B9B40Z	Drainage of Left Lower Lobe Bronchus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9B4ZZ	Drainage of Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9C00Z	Drainage of Right Upper Lung Lobe with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9C0ZZ	Drainage of Right Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0B9C30Z	Drainage of Right Upper Lung Lobe with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B9C3ZZ	Drainage of Right Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0B9C40Z	Drainage of Right Upper Lung Lobe with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9C4ZZ	Drainage of Right Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9C70Z	Drainage of Right Upper Lung Lobe with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9C7ZZ	Drainage of Right Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9D00Z	Drainage of Right Middle Lung Lobe with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9D0ZZ	Drainage of Right Middle Lung Lobe, Open Approach	PX	ICD-10-PCS
0B9D30Z	Drainage of Right Middle Lung Lobe with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B9D3ZZ	Drainage of Right Middle Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0B9D40Z	Drainage of Right Middle Lung Lobe with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9D4ZZ	Drainage of Right Middle Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9D70Z	Drainage of Right Middle Lung Lobe with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0B9D7ZZ	Drainage of Right Middle Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9F00Z	Drainage of Right Lower Lung Lobe with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9F0ZZ	Drainage of Right Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0B9F30Z	Drainage of Right Lower Lung Lobe with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B9F3ZZ	Drainage of Right Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0B9F40Z	Drainage of Right Lower Lung Lobe with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9F4ZZ	Drainage of Right Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9F70Z	Drainage of Right Lower Lung Lobe with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9F7ZZ	Drainage of Right Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9G00Z	Drainage of Left Upper Lung Lobe with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9G0ZZ	Drainage of Left Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0B9G30Z	Drainage of Left Upper Lung Lobe with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B9G3ZZ	Drainage of Left Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0B9G40Z	Drainage of Left Upper Lung Lobe with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9G4ZZ	Drainage of Left Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9G70Z	Drainage of Left Upper Lung Lobe with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9G7ZZ	Drainage of Left Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9H00Z	Drainage of Lung Lingula with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9H0ZZ	Drainage of Lung Lingula, Open Approach	PX	ICD-10-PCS
0B9H30Z	Drainage of Lung Lingula with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B9H3ZZ	Drainage of Lung Lingula, Percutaneous Approach	PX	ICD-10-PCS
0B9H40Z	Drainage of Lung Lingula with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9H4ZZ	Drainage of Lung Lingula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9H70Z	Drainage of Lung Lingula with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9H7ZZ	Drainage of Lung Lingula, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9J00Z	Drainage of Left Lower Lung Lobe with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9J0ZZ	Drainage of Left Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0B9J30Z	Drainage of Left Lower Lung Lobe with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B9J3ZZ	Drainage of Left Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0B9J40Z	Drainage of Left Lower Lung Lobe with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9J4ZZ	Drainage of Left Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9J70Z	Drainage of Left Lower Lung Lobe with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9J7ZZ	Drainage of Left Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9K00Z	Drainage of Right Lung with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9K0ZZ	Drainage of Right Lung, Open Approach	PX	ICD-10-PCS
0B9K30Z	Drainage of Right Lung with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B9K3ZZ	Drainage of Right Lung, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0B9K40Z	Drainage of Right Lung with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9K4ZZ	Drainage of Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9K70Z	Drainage of Right Lung with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9K7ZZ	Drainage of Right Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9L00Z	Drainage of Left Lung with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9L0ZZ	Drainage of Left Lung, Open Approach	PX	ICD-10-PCS
0B9L30Z	Drainage of Left Lung with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B9L3ZZ	Drainage of Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0B9L40Z	Drainage of Left Lung with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9L4ZZ	Drainage of Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9L70Z	Drainage of Left Lung with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9L7ZZ	Drainage of Left Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9M00Z	Drainage of Bilateral Lungs with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9M0ZZ	Drainage of Bilateral Lungs, Open Approach	PX	ICD-10-PCS
0B9M30Z	Drainage of Bilateral Lungs with Drainage Device, Percutaneous Approach	PX	ICD-10-PCS
0B9M3ZZ	Drainage of Bilateral Lungs, Percutaneous Approach	PX	ICD-10-PCS
0B9M40Z	Drainage of Bilateral Lungs with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9M4ZZ	Drainage of Bilateral Lungs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9M70Z	Drainage of Bilateral Lungs with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9M7ZZ	Drainage of Bilateral Lungs, Via Natural or Artificial Opening	PX	ICD-10-PCS
0B9N00Z	Drainage of Right Pleura with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9N0ZZ	Drainage of Right Pleura, Open Approach	PX	ICD-10-PCS
0B9N40Z	Drainage of Right Pleura with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9N4ZZ	Drainage of Right Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9P00Z	Drainage of Left Pleura with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9P0ZZ	Drainage of Left Pleura, Open Approach	PX	ICD-10-PCS
0B9P40Z	Drainage of Left Pleura with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9P4ZZ	Drainage of Left Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9R00Z	Drainage of Right Diaphragm with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9R0ZZ	Drainage of Right Diaphragm, Open Approach	PX	ICD-10-PCS
0B9R40Z	Drainage of Right Diaphragm with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9R4ZZ	Drainage of Right Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9S00Z	Drainage of Left Diaphragm with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9S0ZZ	Drainage of Left Diaphragm, Open Approach	PX	ICD-10-PCS
0B9S40Z	Drainage of Left Diaphragm with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9S4ZZ	Drainage of Left Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9T00Z	Drainage of Diaphragm with Drainage Device, Open Approach	PX	ICD-10-PCS
0B9T0ZZ	Drainage of Diaphragm, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0B9T40Z	Drainage of Diaphragm with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0B9T4ZZ	Drainage of Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BB10ZZ	Excision of Trachea, Open Approach	PX	ICD-10-PCS
0BB13ZZ	Excision of Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BB14ZZ	Excision of Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BB17ZZ	Excision of Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BB18ZZ	Excision of Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BB20ZZ	Excision of Carina, Open Approach	PX	ICD-10-PCS
0BB23ZZ	Excision of Carina, Percutaneous Approach	PX	ICD-10-PCS
0BB24ZZ	Excision of Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BB27ZZ	Excision of Carina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BB28ZZ	Excision of Carina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BB30ZZ	Excision of Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BB33ZZ	Excision of Right Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BB34ZZ	Excision of Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BB37ZZ	Excision of Right Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BB40ZZ	Excision of Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BB43ZZ	Excision of Right Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BB44ZZ	Excision of Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BB47ZZ	Excision of Right Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BB50ZZ	Excision of Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BB53ZZ	Excision of Right Middle Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BB54ZZ	Excision of Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BB57ZZ	Excision of Right Middle Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BB60ZZ	Excision of Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BB63ZZ	Excision of Right Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BB64ZZ	Excision of Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BB67ZZ	Excision of Right Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BB70ZZ	Excision of Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BB73ZZ	Excision of Left Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BB74ZZ	Excision of Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BB77ZZ	Excision of Left Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BB80ZZ	Excision of Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BB83ZZ	Excision of Left Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BB84ZZ	Excision of Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BB87ZZ	Excision of Left Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BB90ZZ	Excision of Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BB93ZZ	Excision of Lingula Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BB94ZZ	Excision of Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BB97ZZ	Excision of Lingula Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BBB0ZZ	Excision of Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BBB3ZZ	Excision of Left Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BBB4ZZ	Excision of Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBB7ZZ	Excision of Left Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BBC0ZZ	Excision of Right Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BBC3ZZ	Excision of Right Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BBC4ZZ	Excision of Right Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBC7ZZ	Excision of Right Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BBD0ZZ	Excision of Right Middle Lung Lobe, Open Approach	PX	ICD-10-PCS
0BBD3ZZ	Excision of Right Middle Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BBD4ZZ	Excision of Right Middle Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBD7ZZ	Excision of Right Middle Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BBF0ZZ	Excision of Right Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BBF3ZZ	Excision of Right Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BBF4ZZ	Excision of Right Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBF7ZZ	Excision of Right Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BBG0ZZ	Excision of Left Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BBG3ZZ	Excision of Left Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BBG4ZZ	Excision of Left Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBG7ZZ	Excision of Left Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BBH0ZZ	Excision of Lung Lingula, Open Approach	PX	ICD-10-PCS
0BBH3ZZ	Excision of Lung Lingula, Percutaneous Approach	PX	ICD-10-PCS
0BBH4ZZ	Excision of Lung Lingula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBH7ZZ	Excision of Lung Lingula, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BBJ0ZZ	Excision of Left Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BBJ3ZZ	Excision of Left Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BBJ4ZZ	Excision of Left Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBJ7ZZ	Excision of Left Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BBK0ZZ	Excision of Right Lung, Open Approach	PX	ICD-10-PCS
0BBK3ZZ	Excision of Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BBK4ZZ	Excision of Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBK7ZZ	Excision of Right Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BBL0ZZ	Excision of Left Lung, Open Approach	PX	ICD-10-PCS
0BBL3ZZ	Excision of Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BBL4ZZ	Excision of Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBL7ZZ	Excision of Left Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BBM0ZZ	Excision of Bilateral Lungs, Open Approach	PX	ICD-10-PCS
0BBM3ZZ	Excision of Bilateral Lungs, Percutaneous Approach	PX	ICD-10-PCS
0BBM4ZZ	Excision of Bilateral Lungs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBM7ZZ	Excision of Bilateral Lungs, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BBN0ZZ	Excision of Right Pleura, Open Approach	PX	ICD-10-PCS
0BBN3ZZ	Excision of Right Pleura, Percutaneous Approach	PX	ICD-10-PCS
0BBN4ZZ	Excision of Right Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBN8ZZ	Excision of Right Pleura, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BBP0ZZ	Excision of Left Pleura, Open Approach	PX	ICD-10-PCS
0BBP3ZZ	Excision of Left Pleura, Percutaneous Approach	PX	ICD-10-PCS
0BBP4ZZ	Excision of Left Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBP8ZZ	Excision of Left Pleura, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BBR0ZZ	Excision of Right Diaphragm, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BBR3ZZ	Excision of Right Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BBR4ZZ	Excision of Right Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBS0ZZ	Excision of Left Diaphragm, Open Approach	PX	ICD-10-PCS
0BBS3ZZ	Excision of Left Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BBS4ZZ	Excision of Left Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BBT0ZZ	Excision of Diaphragm, Open Approach	PX	ICD-10-PCS
0BBT3ZZ	Excision of Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BBT4ZZ	Excision of Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BC10ZZ	Extirpation of Matter from Trachea, Open Approach	PX	ICD-10-PCS
0BC13ZZ	Extirpation of Matter from Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BC14ZZ	Extirpation of Matter from Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BC20ZZ	Extirpation of Matter from Carina, Open Approach	PX	ICD-10-PCS
0BC23ZZ	Extirpation of Matter from Carina, Percutaneous Approach	PX	ICD-10-PCS
0BC24ZZ	Extirpation of Matter from Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BC30ZZ	Extirpation of Matter from Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BC33ZZ	Extirpation of Matter from Right Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BC34ZZ	Extirpation of Matter from Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BC40ZZ	Extirpation of Matter from Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BC43ZZ	Extirpation of Matter from Right Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BC44ZZ	Extirpation of Matter from Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BC50ZZ	Extirpation of Matter from Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BC53ZZ	Extirpation of Matter from Right Middle Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BC54ZZ	Extirpation of Matter from Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BC60ZZ	Extirpation of Matter from Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BC63ZZ	Extirpation of Matter from Right Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BC64ZZ	Extirpation of Matter from Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BC70ZZ	Extirpation of Matter from Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BC73ZZ	Extirpation of Matter from Left Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BC74ZZ	Extirpation of Matter from Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BC80ZZ	Extirpation of Matter from Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BC83ZZ	Extirpation of Matter from Left Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BC84ZZ	Extirpation of Matter from Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BC90ZZ	Extirpation of Matter from Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BC93ZZ	Extirpation of Matter from Lingula Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BC94ZZ	Extirpation of Matter from Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCB0ZZ	Extirpation of Matter from Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BCB3ZZ	Extirpation of Matter from Left Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BCB4ZZ	Extirpation of Matter from Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCC0ZZ	Extirpation of Matter from Right Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BCC3ZZ	Extirpation of Matter from Right Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BCC4ZZ	Extirpation of Matter from Right Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCC7ZZ	Extirpation of Matter from Right Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BCD0ZZ	Extirpation of Matter from Right Middle Lung Lobe, Open Approach	PX	ICD-10-PCS
0BCD3ZZ	Extirpation of Matter from Right Middle Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BCD4ZZ	Extirpation of Matter from Right Middle Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCD7ZZ	Extirpation of Matter from Right Middle Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BCF0ZZ	Extirpation of Matter from Right Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BCF3ZZ	Extirpation of Matter from Right Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BCF4ZZ	Extirpation of Matter from Right Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCF7ZZ	Extirpation of Matter from Right Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BCG0ZZ	Extirpation of Matter from Left Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BCG3ZZ	Extirpation of Matter from Left Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BCG4ZZ	Extirpation of Matter from Left Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCG7ZZ	Extirpation of Matter from Left Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BCH0ZZ	Extirpation of Matter from Lung Lingula, Open Approach	PX	ICD-10-PCS
0BCH3ZZ	Extirpation of Matter from Lung Lingula, Percutaneous Approach	PX	ICD-10-PCS
0BCH4ZZ	Extirpation of Matter from Lung Lingula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCH7ZZ	Extirpation of Matter from Lung Lingula, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BCJ0ZZ	Extirpation of Matter from Left Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BCJ3ZZ	Extirpation of Matter from Left Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BCJ4ZZ	Extirpation of Matter from Left Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCJ7ZZ	Extirpation of Matter from Left Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BCK0ZZ	Extirpation of Matter from Right Lung, Open Approach	PX	ICD-10-PCS
0BCK3ZZ	Extirpation of Matter from Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BCK4ZZ	Extirpation of Matter from Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCK7ZZ	Extirpation of Matter from Right Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BCL0ZZ	Extirpation of Matter from Left Lung, Open Approach	PX	ICD-10-PCS
0BCL3ZZ	Extirpation of Matter from Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BCL4ZZ	Extirpation of Matter from Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCL7ZZ	Extirpation of Matter from Left Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BCM0ZZ	Extirpation of Matter from Bilateral Lungs, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BCM3ZZ	Extirpation of Matter from Bilateral Lungs, Percutaneous Approach	PX	ICD-10-PCS
0BCM4ZZ	Extirpation of Matter from Bilateral Lungs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCM7ZZ	Extirpation of Matter from Bilateral Lungs, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BCN0ZZ	Extirpation of Matter from Right Pleura, Open Approach	PX	ICD-10-PCS
0BCN4ZZ	Extirpation of Matter from Right Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCP0ZZ	Extirpation of Matter from Left Pleura, Open Approach	PX	ICD-10-PCS
0BCP4ZZ	Extirpation of Matter from Left Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCR0ZZ	Extirpation of Matter from Right Diaphragm, Open Approach	PX	ICD-10-PCS
0BCR3ZZ	Extirpation of Matter from Right Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BCR4ZZ	Extirpation of Matter from Right Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCS0ZZ	Extirpation of Matter from Left Diaphragm, Open Approach	PX	ICD-10-PCS
0BCS3ZZ	Extirpation of Matter from Left Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BCS4ZZ	Extirpation of Matter from Left Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BCT0ZZ	Extirpation of Matter from Diaphragm, Open Approach	PX	ICD-10-PCS
0BCT3ZZ	Extirpation of Matter from Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BCT4ZZ	Extirpation of Matter from Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BDN0ZZ	Extraction of Right Pleura, Open Approach	PX	ICD-10-PCS
0BDN3ZZ	Extraction of Right Pleura, Percutaneous Approach	PX	ICD-10-PCS
0BDN4ZZ	Extraction of Right Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BDP0ZZ	Extraction of Left Pleura, Open Approach	PX	ICD-10-PCS
0BDP3ZZ	Extraction of Left Pleura, Percutaneous Approach	PX	ICD-10-PCS
0BDP4ZZ	Extraction of Left Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BF10ZZ	Fragmentation in Trachea, Open Approach	PX	ICD-10-PCS
0BF13ZZ	Fragmentation in Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BF14ZZ	Fragmentation in Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BF17ZZ	Fragmentation in Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BF18ZZ	Fragmentation in Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BF20ZZ	Fragmentation in Carina, Open Approach	PX	ICD-10-PCS
0BF23ZZ	Fragmentation in Carina, Percutaneous Approach	PX	ICD-10-PCS
0BF24ZZ	Fragmentation in Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BF27ZZ	Fragmentation in Carina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BF28ZZ	Fragmentation in Carina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BF30ZZ	Fragmentation in Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BF33ZZ	Fragmentation in Right Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BF34ZZ	Fragmentation in Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BF40ZZ	Fragmentation in Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BF43ZZ	Fragmentation in Right Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BF44ZZ	Fragmentation in Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BF50ZZ	Fragmentation in Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BF53ZZ	Fragmentation in Right Middle Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BF54ZZ	Fragmentation in Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BF60ZZ	Fragmentation in Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BF63ZZ	Fragmentation in Right Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BF64ZZ	Fragmentation in Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BF70ZZ	Fragmentation in Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BF73ZZ	Fragmentation in Left Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BF74ZZ	Fragmentation in Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BF80ZZ	Fragmentation in Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BF83ZZ	Fragmentation in Left Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BF84ZZ	Fragmentation in Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BF90ZZ	Fragmentation in Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BF93ZZ	Fragmentation in Lingula Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BF94ZZ	Fragmentation in Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BFB0ZZ	Fragmentation in Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BFB3ZZ	Fragmentation in Left Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BFB4ZZ	Fragmentation in Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH001Z	Insertion of Radioactive Element into Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BH003Z	Insertion of Infusion Device into Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BH00DZ	Insertion of Intraluminal Device into Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BH00YZ	Insertion of Other Device into Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BH033Z	Insertion of Infusion Device into Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BH03DZ	Insertion of Intraluminal Device into Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BH03YZ	Insertion of Other Device into Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BH041Z	Insertion of Radioactive Element into Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH043Z	Insertion of Infusion Device into Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH04DZ	Insertion of Intraluminal Device into Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH04YZ	Insertion of Other Device into Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH10DZ	Insertion of Intraluminal Device into Trachea, Open Approach	PX	ICD-10-PCS
0BH10YZ	Insertion of Other Device into Trachea, Open Approach	PX	ICD-10-PCS
0BH13DZ	Insertion of Intraluminal Device into Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BH14DZ	Insertion of Intraluminal Device into Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH14YZ	Insertion of Other Device into Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH30GZ	Insertion of Endobronchial Valve into Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BH33GZ	Insertion of Endobronchial Valve into Right Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BH34GZ	Insertion of Endobronchial Valve into Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BH37GZ	Insertion of Endobronchial Valve into Right Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BH40GZ	Insertion of Endobronchial Valve into Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BH43GZ	Insertion of Endobronchial Valve into Right Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BH44GZ	Insertion of Endobronchial Valve into Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH47GZ	Insertion of Endobronchial Valve into Right Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BH50GZ	Insertion of Endobronchial Valve into Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BH53GZ	Insertion of Endobronchial Valve into Right Middle Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BH54GZ	Insertion of Endobronchial Valve into Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH57GZ	Insertion of Endobronchial Valve into Right Middle Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BH60GZ	Insertion of Endobronchial Valve into Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BH63GZ	Insertion of Endobronchial Valve into Right Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BH64GZ	Insertion of Endobronchial Valve into Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH67GZ	Insertion of Endobronchial Valve into Right Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BH70GZ	Insertion of Endobronchial Valve into Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BH73GZ	Insertion of Endobronchial Valve into Left Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BH74GZ	Insertion of Endobronchial Valve into Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH77GZ	Insertion of Endobronchial Valve into Left Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BH80GZ	Insertion of Endobronchial Valve into Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BH83GZ	Insertion of Endobronchial Valve into Left Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BH84GZ	Insertion of Endobronchial Valve into Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BH87GZ	Insertion of Endobronchial Valve into Left Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BH90GZ	Insertion of Endobronchial Valve into Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BH93GZ	Insertion of Endobronchial Valve into Lingula Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BH94GZ	Insertion of Endobronchial Valve into Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BH97GZ	Insertion of Endobronchial Valve into Lingula Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BHB0GZ	Insertion of Endobronchial Valve into Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BHB3GZ	Insertion of Endobronchial Valve into Left Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BHB4GZ	Insertion of Endobronchial Valve into Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHB7GZ	Insertion of Endobronchial Valve into Left Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BHK01Z	Insertion of Radioactive Element into Right Lung, Open Approach	PX	ICD-10-PCS
0BHK03Z	Insertion of Infusion Device into Right Lung, Open Approach	PX	ICD-10-PCS
0BHK0YZ	Insertion of Other Device into Right Lung, Open Approach	PX	ICD-10-PCS
0BHK33Z	Insertion of Infusion Device into Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BHK3YZ	Insertion of Other Device into Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BHK41Z	Insertion of Radioactive Element into Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHK43Z	Insertion of Infusion Device into Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHK4YZ	Insertion of Other Device into Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHL01Z	Insertion of Radioactive Element into Left Lung, Open Approach	PX	ICD-10-PCS
0BHL03Z	Insertion of Infusion Device into Left Lung, Open Approach	PX	ICD-10-PCS
0BHL0YZ	Insertion of Other Device into Left Lung, Open Approach	PX	ICD-10-PCS
0BHL33Z	Insertion of Infusion Device into Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BHL3YZ	Insertion of Other Device into Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BHL41Z	Insertion of Radioactive Element into Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHL43Z	Insertion of Infusion Device into Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHL4YZ	Insertion of Other Device into Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHQ0YZ	Insertion of Other Device into Pleura, Open Approach	PX	ICD-10-PCS
0BHQ4YZ	Insertion of Other Device into Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHQ8YZ	Insertion of Other Device into Pleura, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BHR0MZ	Insertion of Diaphragmatic Pacemaker Lead into Right Diaphragm, Open Approach	PX	ICD-10-PCS
0BHR3MZ	Insertion of Diaphragmatic Pacemaker Lead into Right Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BHR4MZ	Insertion of Diaphragmatic Pacemaker Lead into Right Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHS0MZ	Insertion of Diaphragmatic Pacemaker Lead into Left Diaphragm, Open Approach	PX	ICD-10-PCS
0BHS3MZ	Insertion of Diaphragmatic Pacemaker Lead into Left Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BHS4MZ	Insertion of Diaphragmatic Pacemaker Lead into Left Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHT0MZ	Insertion of Diaphragmatic Pacemaker Lead into Diaphragm, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BHT0YZ	Insertion of Other Device into Diaphragm, Open Approach	PX	ICD-10-PCS
0BHT3MZ	Insertion of Diaphragmatic Pacemaker Lead into Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BHT3YZ	Insertion of Other Device into Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BHT4MZ	Insertion of Diaphragmatic Pacemaker Lead into Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BHT4YZ	Insertion of Other Device into Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL10CZ	Occlusion of Trachea with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BL10DZ	Occlusion of Trachea with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BL10ZZ	Occlusion of Trachea, Open Approach	PX	ICD-10-PCS
0BL13CZ	Occlusion of Trachea with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL13DZ	Occlusion of Trachea with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL13ZZ	Occlusion of Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BL14CZ	Occlusion of Trachea with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL14DZ	Occlusion of Trachea with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL14ZZ	Occlusion of Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL17DZ	Occlusion of Trachea with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL17ZZ	Occlusion of Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL18DZ	Occlusion of Trachea with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL18ZZ	Occlusion of Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL20CZ	Occlusion of Carina with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BL20DZ	Occlusion of Carina with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BL20ZZ	Occlusion of Carina, Open Approach	PX	ICD-10-PCS
0BL23CZ	Occlusion of Carina with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL23DZ	Occlusion of Carina with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL23ZZ	Occlusion of Carina, Percutaneous Approach	PX	ICD-10-PCS
0BL24CZ	Occlusion of Carina with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL24DZ	Occlusion of Carina with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL24ZZ	Occlusion of Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL27DZ	Occlusion of Carina with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL27ZZ	Occlusion of Carina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL28DZ	Occlusion of Carina with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL28ZZ	Occlusion of Carina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL30CZ	Occlusion of Right Main Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BL30DZ	Occlusion of Right Main Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BL30ZZ	Occlusion of Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BL33CZ	Occlusion of Right Main Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BL33DZ	Occlusion of Right Main Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL33ZZ	Occlusion of Right Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BL34CZ	Occlusion of Right Main Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL34DZ	Occlusion of Right Main Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL34ZZ	Occlusion of Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL37DZ	Occlusion of Right Main Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL37ZZ	Occlusion of Right Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL38DZ	Occlusion of Right Main Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL38ZZ	Occlusion of Right Main Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL40CZ	Occlusion of Right Upper Lobe Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BL40DZ	Occlusion of Right Upper Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BL40ZZ	Occlusion of Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BL43CZ	Occlusion of Right Upper Lobe Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL43DZ	Occlusion of Right Upper Lobe Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL43ZZ	Occlusion of Right Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BL44CZ	Occlusion of Right Upper Lobe Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL44DZ	Occlusion of Right Upper Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL44ZZ	Occlusion of Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL47DZ	Occlusion of Right Upper Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL47ZZ	Occlusion of Right Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL48DZ	Occlusion of Right Upper Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL48ZZ	Occlusion of Right Upper Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL50CZ	Occlusion of Right Middle Lobe Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BL50DZ	Occlusion of Right Middle Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BL50ZZ	Occlusion of Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BL53CZ	Occlusion of Right Middle Lobe Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL53DZ	Occlusion of Right Middle Lobe Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BL53ZZ	Occlusion of Right Middle Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BL54CZ	Occlusion of Right Middle Lobe Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL54DZ	Occlusion of Right Middle Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL54ZZ	Occlusion of Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL57DZ	Occlusion of Right Middle Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL57ZZ	Occlusion of Right Middle Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL58DZ	Occlusion of Right Middle Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL58ZZ	Occlusion of Right Middle Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL60CZ	Occlusion of Right Lower Lobe Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BL60DZ	Occlusion of Right Lower Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BL60ZZ	Occlusion of Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BL63CZ	Occlusion of Right Lower Lobe Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL63DZ	Occlusion of Right Lower Lobe Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL63ZZ	Occlusion of Right Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BL64CZ	Occlusion of Right Lower Lobe Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL64DZ	Occlusion of Right Lower Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL64ZZ	Occlusion of Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL67DZ	Occlusion of Right Lower Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL67ZZ	Occlusion of Right Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL68DZ	Occlusion of Right Lower Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL68ZZ	Occlusion of Right Lower Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL70CZ	Occlusion of Left Main Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BL70DZ	Occlusion of Left Main Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BL70ZZ	Occlusion of Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BL73CZ	Occlusion of Left Main Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL73DZ	Occlusion of Left Main Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL73ZZ	Occlusion of Left Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BL74CZ	Occlusion of Left Main Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BL74DZ	Occlusion of Left Main Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL74ZZ	Occlusion of Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL77DZ	Occlusion of Left Main Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL77ZZ	Occlusion of Left Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL78DZ	Occlusion of Left Main Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL78ZZ	Occlusion of Left Main Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL80CZ	Occlusion of Left Upper Lobe Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BL80DZ	Occlusion of Left Upper Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BL80ZZ	Occlusion of Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BL83CZ	Occlusion of Left Upper Lobe Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL83DZ	Occlusion of Left Upper Lobe Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL83ZZ	Occlusion of Left Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BL84CZ	Occlusion of Left Upper Lobe Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL84DZ	Occlusion of Left Upper Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL84ZZ	Occlusion of Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL87DZ	Occlusion of Left Upper Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL87ZZ	Occlusion of Left Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL88DZ	Occlusion of Left Upper Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL88ZZ	Occlusion of Left Upper Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL90CZ	Occlusion of Lingula Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BL90DZ	Occlusion of Lingula Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BL90ZZ	Occlusion of Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BL93CZ	Occlusion of Lingula Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL93DZ	Occlusion of Lingula Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BL93ZZ	Occlusion of Lingula Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BL94CZ	Occlusion of Lingula Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL94DZ	Occlusion of Lingula Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL94ZZ	Occlusion of Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BL97DZ	Occlusion of Lingula Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BL97ZZ	Occlusion of Lingula Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BL98DZ	Occlusion of Lingula Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BL98ZZ	Occlusion of Lingula Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BLB0CZ	Occlusion of Left Lower Lobe Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BLB0DZ	Occlusion of Left Lower Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BLB0ZZ	Occlusion of Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BLB3CZ	Occlusion of Left Lower Lobe Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BLB3DZ	Occlusion of Left Lower Lobe Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BLB3ZZ	Occlusion of Left Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BLB4CZ	Occlusion of Left Lower Lobe Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BLB4DZ	Occlusion of Left Lower Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BLB4ZZ	Occlusion of Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BLB7DZ	Occlusion of Left Lower Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BLB7ZZ	Occlusion of Left Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BLB8DZ	Occlusion of Left Lower Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BLB8ZZ	Occlusion of Left Lower Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BM10ZZ	Reattachment of Trachea, Open Approach	PX	ICD-10-PCS
0BM20ZZ	Reattachment of Carina, Open Approach	PX	ICD-10-PCS
0BM30ZZ	Reattachment of Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BM40ZZ	Reattachment of Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BM50ZZ	Reattachment of Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BM60ZZ	Reattachment of Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BM70ZZ	Reattachment of Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BM80ZZ	Reattachment of Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BM90ZZ	Reattachment of Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BMB0ZZ	Reattachment of Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BMC0ZZ	Reattachment of Right Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BMD0ZZ	Reattachment of Right Middle Lung Lobe, Open Approach	PX	ICD-10-PCS
0BMF0ZZ	Reattachment of Right Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BMG0ZZ	Reattachment of Left Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BMH0ZZ	Reattachment of Lung Lingula, Open Approach	PX	ICD-10-PCS
0BMJ0ZZ	Reattachment of Left Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BMK0ZZ	Reattachment of Right Lung, Open Approach	PX	ICD-10-PCS
0BML0ZZ	Reattachment of Left Lung, Open Approach	PX	ICD-10-PCS
0BMR0ZZ	Reattachment of Right Diaphragm, Open Approach	PX	ICD-10-PCS
0BMS0ZZ	Reattachment of Left Diaphragm, Open Approach	PX	ICD-10-PCS
0BMT0ZZ	Reattachment of Diaphragm, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BN10ZZ	Release Trachea, Open Approach	PX	ICD-10-PCS
0BN13ZZ	Release Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BN14ZZ	Release Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BN17ZZ	Release Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BN18ZZ	Release Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BN20ZZ	Release Carina, Open Approach	PX	ICD-10-PCS
0BN23ZZ	Release Carina, Percutaneous Approach	PX	ICD-10-PCS
0BN24ZZ	Release Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BN27ZZ	Release Carina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BN28ZZ	Release Carina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BN30ZZ	Release Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BN33ZZ	Release Right Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BN34ZZ	Release Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BN37ZZ	Release Right Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BN38ZZ	Release Right Main Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BN40ZZ	Release Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BN43ZZ	Release Right Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BN44ZZ	Release Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BN47ZZ	Release Right Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BN48ZZ	Release Right Upper Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BN50ZZ	Release Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BN53ZZ	Release Right Middle Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BN54ZZ	Release Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BN57ZZ	Release Right Middle Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BN58ZZ	Release Right Middle Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BN60ZZ	Release Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BN63ZZ	Release Right Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BN64ZZ	Release Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BN67ZZ	Release Right Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BN68ZZ	Release Right Lower Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BN70ZZ	Release Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BN73ZZ	Release Left Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BN74ZZ	Release Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BN77ZZ	Release Left Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BN78ZZ	Release Left Main Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BN80ZZ	Release Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BN83ZZ	Release Left Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BN84ZZ	Release Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BN87ZZ	Release Left Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BN88ZZ	Release Left Upper Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BN90ZZ	Release Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BN93ZZ	Release Lingula Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BN94ZZ	Release Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BN97ZZ	Release Lingula Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BN98ZZ	Release Lingula Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BNB0ZZ	Release Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BNB3ZZ	Release Left Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BNB4ZZ	Release Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNB7ZZ	Release Left Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BNB8ZZ	Release Left Lower Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BNC0ZZ	Release Right Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BNC3ZZ	Release Right Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BNC4ZZ	Release Right Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNC7ZZ	Release Right Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BNC8ZZ	Release Right Upper Lung Lobe, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BND0ZZ	Release Right Middle Lung Lobe, Open Approach	PX	ICD-10-PCS
0BND3ZZ	Release Right Middle Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BND4ZZ	Release Right Middle Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BND7ZZ	Release Right Middle Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BND8ZZ	Release Right Middle Lung Lobe, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BNF0ZZ	Release Right Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BNF3ZZ	Release Right Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BNF4ZZ	Release Right Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNF7ZZ	Release Right Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BNF8ZZ	Release Right Lower Lung Lobe, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BNG0ZZ	Release Left Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BNG3ZZ	Release Left Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BNG4ZZ	Release Left Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNG7ZZ	Release Left Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BNG8ZZ	Release Left Upper Lung Lobe, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BNH0ZZ	Release Lung Lingula, Open Approach	PX	ICD-10-PCS
0BNH3ZZ	Release Lung Lingula, Percutaneous Approach	PX	ICD-10-PCS
0BNH4ZZ	Release Lung Lingula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNH7ZZ	Release Lung Lingula, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BNH8ZZ	Release Lung Lingula, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BNJ0ZZ	Release Left Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BNJ3ZZ	Release Left Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BNJ4ZZ	Release Left Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNJ7ZZ	Release Left Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BNJ8ZZ	Release Left Lower Lung Lobe, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BNK0ZZ	Release Right Lung, Open Approach	PX	ICD-10-PCS
0BNK3ZZ	Release Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BNK4ZZ	Release Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNK7ZZ	Release Right Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BNK8ZZ	Release Right Lung, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BNL0ZZ	Release Left Lung, Open Approach	PX	ICD-10-PCS
0BNL3ZZ	Release Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BNL4ZZ	Release Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BNL7ZZ	Release Left Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BNL8ZZ	Release Left Lung, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BNM0ZZ	Release Bilateral Lungs, Open Approach	PX	ICD-10-PCS
0BNM3ZZ	Release Bilateral Lungs, Percutaneous Approach	PX	ICD-10-PCS
0BNM4ZZ	Release Bilateral Lungs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNM7ZZ	Release Bilateral Lungs, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BNM8ZZ	Release Bilateral Lungs, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BNN0ZZ	Release Right Pleura, Open Approach	PX	ICD-10-PCS
0BNN3ZZ	Release Right Pleura, Percutaneous Approach	PX	ICD-10-PCS
0BNN4ZZ	Release Right Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNP0ZZ	Release Left Pleura, Open Approach	PX	ICD-10-PCS
0BNP3ZZ	Release Left Pleura, Percutaneous Approach	PX	ICD-10-PCS
0BNP4ZZ	Release Left Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNR0ZZ	Release Right Diaphragm, Open Approach	PX	ICD-10-PCS
0BNR3ZZ	Release Right Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BNR4ZZ	Release Right Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNS0ZZ	Release Left Diaphragm, Open Approach	PX	ICD-10-PCS
0BNS3ZZ	Release Left Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BNS4ZZ	Release Left Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BNT0ZZ	Release Diaphragm, Open Approach	PX	ICD-10-PCS
0BNT3ZZ	Release Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BNT4ZZ	Release Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP000Z	Removal of Drainage Device from Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BP001Z	Removal of Radioactive Element from Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BP002Z	Removal of Monitoring Device from Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BP003Z	Removal of Infusion Device from Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BP007Z	Removal of Autologous Tissue Substitute from Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BP00CZ	Removal of Extraluminal Device from Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BP00DZ	Removal of Intraluminal Device from Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BP00JZ	Removal of Synthetic Substitute from Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BP00KZ	Removal of Nonautologous Tissue Substitute from Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BP00YZ	Removal of Other Device from Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BP030Z	Removal of Drainage Device from Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BP032Z	Removal of Monitoring Device from Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BP033Z	Removal of Infusion Device from Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BP037Z	Removal of Autologous Tissue Substitute from Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BP03CZ	Removal of Extraluminal Device from Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BP03DZ	Removal of Intraluminal Device from Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BP03JZ	Removal of Synthetic Substitute from Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BP03KZ	Removal of Nonautologous Tissue Substitute from Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BP040Z	Removal of Drainage Device from Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP041Z	Removal of Radioactive Element from Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP042Z	Removal of Monitoring Device from Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP043Z	Removal of Infusion Device from Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP047Z	Removal of Autologous Tissue Substitute from Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP04CZ	Removal of Extraluminal Device from Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP04DZ	Removal of Intraluminal Device from Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP04JZ	Removal of Synthetic Substitute from Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP04KZ	Removal of Nonautologous Tissue Substitute from Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP04YZ	Removal of Other Device from Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP077Z	Removal of Autologous Tissue Substitute from Tracheobronchial Tree, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BP07CZ	Removal of Extraluminal Device from Tracheobronchial Tree, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BP07JZ	Removal of Synthetic Substitute from Tracheobronchial Tree, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BP07KZ	Removal of Nonautologous Tissue Substitute from Tracheobronchial Tree, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BP087Z	Removal of Autologous Tissue Substitute from Tracheobronchial Tree, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BP08CZ	Removal of Extraluminal Device from Tracheobronchial Tree, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BP08JZ	Removal of Synthetic Substitute from Tracheobronchial Tree, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BP08KZ	Removal of Nonautologous Tissue Substitute from Tracheobronchial Tree, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BP100Z	Removal of Drainage Device from Trachea, Open Approach	PX	ICD-10-PCS
0BP102Z	Removal of Monitoring Device from Trachea, Open Approach	PX	ICD-10-PCS
0BP107Z	Removal of Autologous Tissue Substitute from Trachea, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BP10CZ	Removal of Extraluminal Device from Trachea, Open Approach	PX	ICD-10-PCS
0BP10DZ	Removal of Intraluminal Device from Trachea, Open Approach	PX	ICD-10-PCS
0BP10FZ	Removal of Tracheostomy Device from Trachea, Open Approach	PX	ICD-10-PCS
0BP10JZ	Removal of Synthetic Substitute from Trachea, Open Approach	PX	ICD-10-PCS
0BP10KZ	Removal of Nonautologous Tissue Substitute from Trachea, Open Approach	PX	ICD-10-PCS
0BP130Z	Removal of Drainage Device from Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BP132Z	Removal of Monitoring Device from Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BP137Z	Removal of Autologous Tissue Substitute from Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BP13CZ	Removal of Extraluminal Device from Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BP13DZ	Removal of Intraluminal Device from Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BP13JZ	Removal of Synthetic Substitute from Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BP13KZ	Removal of Nonautologous Tissue Substitute from Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BP140Z	Removal of Drainage Device from Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP142Z	Removal of Monitoring Device from Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP147Z	Removal of Autologous Tissue Substitute from Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP14CZ	Removal of Extraluminal Device from Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP14DZ	Removal of Intraluminal Device from Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP14FZ	Removal of Tracheostomy Device from Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP14JZ	Removal of Synthetic Substitute from Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP14KZ	Removal of Nonautologous Tissue Substitute from Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BP177Z	Removal of Autologous Tissue Substitute from Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BP17CZ	Removal of Extraluminal Device from Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BP17JZ	Removal of Synthetic Substitute from Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BP17KZ	Removal of Nonautologous Tissue Substitute from Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BP187Z	Removal of Autologous Tissue Substitute from Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BP18CZ	Removal of Extraluminal Device from Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BP18JZ	Removal of Synthetic Substitute from Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BP18KZ	Removal of Nonautologous Tissue Substitute from Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BPK00Z	Removal of Drainage Device from Right Lung, Open Approach	PX	ICD-10-PCS
0BPK01Z	Removal of Radioactive Element from Right Lung, Open Approach	PX	ICD-10-PCS
0BPK02Z	Removal of Monitoring Device from Right Lung, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BPK03Z	Removal of Infusion Device from Right Lung, Open Approach	PX	ICD-10-PCS
0BPK0YZ	Removal of Other Device from Right Lung, Open Approach	PX	ICD-10-PCS
0BPK30Z	Removal of Drainage Device from Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BPK32Z	Removal of Monitoring Device from Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BPK33Z	Removal of Infusion Device from Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BPK40Z	Removal of Drainage Device from Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPK41Z	Removal of Radioactive Element from Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPK42Z	Removal of Monitoring Device from Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPK43Z	Removal of Infusion Device from Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPK4YZ	Removal of Other Device from Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPL00Z	Removal of Drainage Device from Left Lung, Open Approach	PX	ICD-10-PCS
0BPL01Z	Removal of Radioactive Element from Left Lung, Open Approach	PX	ICD-10-PCS
0BPL02Z	Removal of Monitoring Device from Left Lung, Open Approach	PX	ICD-10-PCS
0BPL03Z	Removal of Infusion Device from Left Lung, Open Approach	PX	ICD-10-PCS
0BPL0YZ	Removal of Other Device from Left Lung, Open Approach	PX	ICD-10-PCS
0BPL30Z	Removal of Drainage Device from Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BPL32Z	Removal of Monitoring Device from Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BPL33Z	Removal of Infusion Device from Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BPL40Z	Removal of Drainage Device from Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPL41Z	Removal of Radioactive Element from Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPL42Z	Removal of Monitoring Device from Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPL43Z	Removal of Infusion Device from Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPL4YZ	Removal of Other Device from Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPQ00Z	Removal of Drainage Device from Pleura, Open Approach	PX	ICD-10-PCS
0BPQ01Z	Removal of Radioactive Element from Pleura, Open Approach	PX	ICD-10-PCS
0BPQ02Z	Removal of Monitoring Device from Pleura, Open Approach	PX	ICD-10-PCS
0BPQ0YZ	Removal of Other Device from Pleura, Open Approach	PX	ICD-10-PCS
0BPQ40Z	Removal of Drainage Device from Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPQ41Z	Removal of Radioactive Element from Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPQ42Z	Removal of Monitoring Device from Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPQ4YZ	Removal of Other Device from Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPT00Z	Removal of Drainage Device from Diaphragm, Open Approach	PX	ICD-10-PCS
0BPT02Z	Removal of Monitoring Device from Diaphragm, Open Approach	PX	ICD-10-PCS
0BPT07Z	Removal of Autologous Tissue Substitute from Diaphragm, Open Approach	PX	ICD-10-PCS
0BPT0JZ	Removal of Synthetic Substitute from Diaphragm, Open Approach	PX	ICD-10-PCS
0BPT0KZ	Removal of Nonautologous Tissue Substitute from Diaphragm, Open Approach	PX	ICD-10-PCS
0BPT0MZ	Removal of Diaphragmatic Pacemaker Lead from Diaphragm, Open Approach	PX	ICD-10-PCS
0BPT0YZ	Removal of Other Device from Diaphragm, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BPT30Z	Removal of Drainage Device from Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BPT32Z	Removal of Monitoring Device from Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BPT37Z	Removal of Autologous Tissue Substitute from Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BPT3JZ	Removal of Synthetic Substitute from Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BPT3KZ	Removal of Nonautologous Tissue Substitute from Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BPT3MZ	Removal of Diaphragmatic Pacemaker Lead from Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BPT40Z	Removal of Drainage Device from Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPT42Z	Removal of Monitoring Device from Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPT47Z	Removal of Autologous Tissue Substitute from Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPT4JZ	Removal of Synthetic Substitute from Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPT4KZ	Removal of Nonautologous Tissue Substitute from Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPT4MZ	Removal of Diaphragmatic Pacemaker Lead from Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPT4YZ	Removal of Other Device from Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BPT77Z	Removal of Autologous Tissue Substitute from Diaphragm, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BPT7JZ	Removal of Synthetic Substitute from Diaphragm, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BPT7KZ	Removal of Nonautologous Tissue Substitute from Diaphragm, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BPT7MZ	Removal of Diaphragmatic Pacemaker Lead from Diaphragm, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BPT87Z	Removal of Autologous Tissue Substitute from Diaphragm, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BPT8JZ	Removal of Synthetic Substitute from Diaphragm, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BPT8KZ	Removal of Nonautologous Tissue Substitute from Diaphragm, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BPT8MZ	Removal of Diaphragmatic Pacemaker Lead from Diaphragm, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQ10ZZ	Repair Trachea, Open Approach	PX	ICD-10-PCS
0BQ13ZZ	Repair Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BQ14ZZ	Repair Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQ17ZZ	Repair Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQ18ZZ	Repair Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQ20ZZ	Repair Carina, Open Approach	PX	ICD-10-PCS
0BQ23ZZ	Repair Carina, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BQ24ZZ	Repair Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQ27ZZ	Repair Carina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQ28ZZ	Repair Carina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQ30ZZ	Repair Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BQ33ZZ	Repair Right Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BQ34ZZ	Repair Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQ37ZZ	Repair Right Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQ38ZZ	Repair Right Main Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQ40ZZ	Repair Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BQ43ZZ	Repair Right Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BQ44ZZ	Repair Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQ47ZZ	Repair Right Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQ48ZZ	Repair Right Upper Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQ50ZZ	Repair Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BQ53ZZ	Repair Right Middle Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BQ54ZZ	Repair Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQ57ZZ	Repair Right Middle Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQ58ZZ	Repair Right Middle Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQ60ZZ	Repair Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BQ63ZZ	Repair Right Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BQ64ZZ	Repair Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQ67ZZ	Repair Right Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQ68ZZ	Repair Right Lower Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQ70ZZ	Repair Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BQ73ZZ	Repair Left Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BQ74ZZ	Repair Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQ77ZZ	Repair Left Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQ78ZZ	Repair Left Main Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQ80ZZ	Repair Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BQ83ZZ	Repair Left Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BQ84ZZ	Repair Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQ87ZZ	Repair Left Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQ88ZZ	Repair Left Upper Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQ90ZZ	Repair Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BQ93ZZ	Repair Lingula Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BQ94ZZ	Repair Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQ97ZZ	Repair Lingula Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQ98ZZ	Repair Lingula Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQB0ZZ	Repair Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BQB3ZZ	Repair Left Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BQB4ZZ	Repair Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQB7ZZ	Repair Left Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQB8ZZ	Repair Left Lower Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQC0ZZ	Repair Right Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BQC3ZZ	Repair Right Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BQC4ZZ	Repair Right Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQC7ZZ	Repair Right Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQC8ZZ	Repair Right Upper Lung Lobe, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQD0ZZ	Repair Right Middle Lung Lobe, Open Approach	PX	ICD-10-PCS
0BQD3ZZ	Repair Right Middle Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BQD4ZZ	Repair Right Middle Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQD7ZZ	Repair Right Middle Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQD8ZZ	Repair Right Middle Lung Lobe, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQF0ZZ	Repair Right Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BQF3ZZ	Repair Right Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BQF4ZZ	Repair Right Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQF7ZZ	Repair Right Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQF8ZZ	Repair Right Lower Lung Lobe, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQG0ZZ	Repair Left Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BQG3ZZ	Repair Left Upper Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BQG4ZZ	Repair Left Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQG7ZZ	Repair Left Upper Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQG8ZZ	Repair Left Upper Lung Lobe, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQH0ZZ	Repair Lung Lingula, Open Approach	PX	ICD-10-PCS
0BQH3ZZ	Repair Lung Lingula, Percutaneous Approach	PX	ICD-10-PCS
0BQH4ZZ	Repair Lung Lingula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQH7ZZ	Repair Lung Lingula, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQH8ZZ	Repair Lung Lingula, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQJ0ZZ	Repair Left Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BQJ3ZZ	Repair Left Lower Lung Lobe, Percutaneous Approach	PX	ICD-10-PCS
0BQJ4ZZ	Repair Left Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQJ7ZZ	Repair Left Lower Lung Lobe, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQJ8ZZ	Repair Left Lower Lung Lobe, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQK0ZZ	Repair Right Lung, Open Approach	PX	ICD-10-PCS
0BQK3ZZ	Repair Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BQK4ZZ	Repair Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQK7ZZ	Repair Right Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQK8ZZ	Repair Right Lung, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQL0ZZ	Repair Left Lung, Open Approach	PX	ICD-10-PCS
0BQL3ZZ	Repair Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BQL4ZZ	Repair Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQL7ZZ	Repair Left Lung, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQL8ZZ	Repair Left Lung, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQM0ZZ	Repair Bilateral Lungs, Open Approach	PX	ICD-10-PCS
0BQM3ZZ	Repair Bilateral Lungs, Percutaneous Approach	PX	ICD-10-PCS
0BQM4ZZ	Repair Bilateral Lungs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQM7ZZ	Repair Bilateral Lungs, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BQM8ZZ	Repair Bilateral Lungs, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BQN0ZZ	Repair Right Pleura, Open Approach	PX	ICD-10-PCS
0BQN3ZZ	Repair Right Pleura, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BQN4ZZ	Repair Right Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQP0ZZ	Repair Left Pleura, Open Approach	PX	ICD-10-PCS
0BQP3ZZ	Repair Left Pleura, Percutaneous Approach	PX	ICD-10-PCS
0BQP4ZZ	Repair Left Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQR0ZZ	Repair Right Diaphragm, Open Approach	PX	ICD-10-PCS
0BQR3ZZ	Repair Right Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BQR4ZZ	Repair Right Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQS0ZZ	Repair Left Diaphragm, Open Approach	PX	ICD-10-PCS
0BQS3ZZ	Repair Left Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BQS4ZZ	Repair Left Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BQT0ZZ	Repair Diaphragm, Open Approach	PX	ICD-10-PCS
0BQT3ZZ	Repair Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BQT4ZZ	Repair Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR107Z	Replacement of Trachea with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR10JZ	Replacement of Trachea with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BR10KZ	Replacement of Trachea with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR147Z	Replacement of Trachea with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR14JZ	Replacement of Trachea with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR14KZ	Replacement of Trachea with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR207Z	Replacement of Carina with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR20JZ	Replacement of Carina with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BR20KZ	Replacement of Carina with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR247Z	Replacement of Carina with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR24JZ	Replacement of Carina with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR24KZ	Replacement of Carina with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR307Z	Replacement of Right Main Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR30JZ	Replacement of Right Main Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BR30KZ	Replacement of Right Main Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR347Z	Replacement of Right Main Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR34JZ	Replacement of Right Main Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR34KZ	Replacement of Right Main Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR407Z	Replacement of Right Upper Lobe Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BR40JZ	Replacement of Right Upper Lobe Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BR40KZ	Replacement of Right Upper Lobe Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR447Z	Replacement of Right Upper Lobe Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR44JZ	Replacement of Right Upper Lobe Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR44KZ	Replacement of Right Upper Lobe Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR507Z	Replacement of Right Middle Lobe Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR50JZ	Replacement of Right Middle Lobe Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BR50KZ	Replacement of Right Middle Lobe Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR547Z	Replacement of Right Middle Lobe Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR54JZ	Replacement of Right Middle Lobe Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR54KZ	Replacement of Right Middle Lobe Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR607Z	Replacement of Right Lower Lobe Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR60JZ	Replacement of Right Lower Lobe Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BR60KZ	Replacement of Right Lower Lobe Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR647Z	Replacement of Right Lower Lobe Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR64JZ	Replacement of Right Lower Lobe Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR64KZ	Replacement of Right Lower Lobe Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR707Z	Replacement of Left Main Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR70JZ	Replacement of Left Main Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BR70KZ	Replacement of Left Main Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR747Z	Replacement of Left Main Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR74JZ	Replacement of Left Main Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR74KZ	Replacement of Left Main Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BR807Z	Replacement of Left Upper Lobe Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR80JZ	Replacement of Left Upper Lobe Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BR80KZ	Replacement of Left Upper Lobe Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR847Z	Replacement of Left Upper Lobe Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR84JZ	Replacement of Left Upper Lobe Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR84KZ	Replacement of Left Upper Lobe Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR907Z	Replacement of Lingula Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR90JZ	Replacement of Lingula Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BR90KZ	Replacement of Lingula Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BR947Z	Replacement of Lingula Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR94JZ	Replacement of Lingula Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BR94KZ	Replacement of Lingula Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BRB07Z	Replacement of Left Lower Lobe Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BRB0JZ	Replacement of Left Lower Lobe Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BRB0KZ	Replacement of Left Lower Lobe Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BRB47Z	Replacement of Left Lower Lobe Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BRB4JZ	Replacement of Left Lower Lobe Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BRB4KZ	Replacement of Left Lower Lobe Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BRT07Z	Replacement of Diaphragm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BRT0JZ	Replacement of Diaphragm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BRT0KZ	Replacement of Diaphragm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BRT47Z	Replacement of Diaphragm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BRT4JZ	Replacement of Diaphragm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BRT4KZ	Replacement of Diaphragm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BS10ZZ	Reposition Trachea, Open Approach	PX	ICD-10-PCS
0BS20ZZ	Reposition Carina, Open Approach	PX	ICD-10-PCS
0BS30ZZ	Reposition Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BS40ZZ	Reposition Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BS50ZZ	Reposition Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BS60ZZ	Reposition Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BS70ZZ	Reposition Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BS80ZZ	Reposition Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BS90ZZ	Reposition Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BSB0ZZ	Reposition Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BSC0ZZ	Reposition Right Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BSD0ZZ	Reposition Right Middle Lung Lobe, Open Approach	PX	ICD-10-PCS
0BSF0ZZ	Reposition Right Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BSG0ZZ	Reposition Left Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BSH0ZZ	Reposition Lung Lingula, Open Approach	PX	ICD-10-PCS
0BSJ0ZZ	Reposition Left Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BSK0ZZ	Reposition Right Lung, Open Approach	PX	ICD-10-PCS
0BSL0ZZ	Reposition Left Lung, Open Approach	PX	ICD-10-PCS
0BSR0ZZ	Reposition Right Diaphragm, Open Approach	PX	ICD-10-PCS
0BSS0ZZ	Reposition Left Diaphragm, Open Approach	PX	ICD-10-PCS
0BST0ZZ	Reposition Diaphragm, Open Approach	PX	ICD-10-PCS
0BT10ZZ	Resection of Trachea, Open Approach	PX	ICD-10-PCS
0BT14ZZ	Resection of Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BT20ZZ	Resection of Carina, Open Approach	PX	ICD-10-PCS
0BT24ZZ	Resection of Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BT30ZZ	Resection of Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BT34ZZ	Resection of Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BT40ZZ	Resection of Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BT44ZZ	Resection of Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BT50ZZ	Resection of Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BT54ZZ	Resection of Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BT60ZZ	Resection of Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BT64ZZ	Resection of Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BT70ZZ	Resection of Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BT74ZZ	Resection of Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BT80ZZ	Resection of Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BT84ZZ	Resection of Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BT90ZZ	Resection of Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BT94ZZ	Resection of Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTB0ZZ	Resection of Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BTB4ZZ	Resection of Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTC0ZZ	Resection of Right Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BTC4ZZ	Resection of Right Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTD0ZZ	Resection of Right Middle Lung Lobe, Open Approach	PX	ICD-10-PCS
0BTD4ZZ	Resection of Right Middle Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BTF0ZZ	Resection of Right Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BTF4ZZ	Resection of Right Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTG0ZZ	Resection of Left Upper Lung Lobe, Open Approach	PX	ICD-10-PCS
0BTG4ZZ	Resection of Left Upper Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTH0ZZ	Resection of Lung Lingula, Open Approach	PX	ICD-10-PCS
0BTH4ZZ	Resection of Lung Lingula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTJ0ZZ	Resection of Left Lower Lung Lobe, Open Approach	PX	ICD-10-PCS
0BTJ4ZZ	Resection of Left Lower Lung Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTK0ZZ	Resection of Right Lung, Open Approach	PX	ICD-10-PCS
0BTK4ZZ	Resection of Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTL0ZZ	Resection of Left Lung, Open Approach	PX	ICD-10-PCS
0BTL4ZZ	Resection of Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTM0ZZ	Resection of Bilateral Lungs, Open Approach	PX	ICD-10-PCS
0BTM4ZZ	Resection of Bilateral Lungs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTR0ZZ	Resection of Right Diaphragm, Open Approach	PX	ICD-10-PCS
0BTR4ZZ	Resection of Right Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTS0ZZ	Resection of Left Diaphragm, Open Approach	PX	ICD-10-PCS
0BTS4ZZ	Resection of Left Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BTT0ZZ	Resection of Diaphragm, Open Approach	PX	ICD-10-PCS
0BTT4ZZ	Resection of Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU107Z	Supplement Trachea with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU10JZ	Supplement Trachea with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BU10KZ	Supplement Trachea with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU147Z	Supplement Trachea with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU14JZ	Supplement Trachea with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU14KZ	Supplement Trachea with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU187Z	Supplement Trachea with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU18JZ	Supplement Trachea with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU18KZ	Supplement Trachea with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU207Z	Supplement Carina with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU20JZ	Supplement Carina with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BU20KZ	Supplement Carina with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU247Z	Supplement Carina with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU24JZ	Supplement Carina with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU24KZ	Supplement Carina with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BU287Z	Supplement Carina with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU28JZ	Supplement Carina with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU28KZ	Supplement Carina with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU307Z	Supplement Right Main Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU30JZ	Supplement Right Main Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BU30KZ	Supplement Right Main Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU347Z	Supplement Right Main Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU34JZ	Supplement Right Main Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU34KZ	Supplement Right Main Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU387Z	Supplement Right Main Bronchus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU38JZ	Supplement Right Main Bronchus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU38KZ	Supplement Right Main Bronchus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU407Z	Supplement Right Upper Lobe Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU40JZ	Supplement Right Upper Lobe Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BU40KZ	Supplement Right Upper Lobe Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU447Z	Supplement Right Upper Lobe Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU44JZ	Supplement Right Upper Lobe Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU44KZ	Supplement Right Upper Lobe Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU487Z	Supplement Right Upper Lobe Bronchus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU48JZ	Supplement Right Upper Lobe Bronchus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU48KZ	Supplement Right Upper Lobe Bronchus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU507Z	Supplement Right Middle Lobe Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU50JZ	Supplement Right Middle Lobe Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BU50KZ	Supplement Right Middle Lobe Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU547Z	Supplement Right Middle Lobe Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU54JZ	Supplement Right Middle Lobe Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU54KZ	Supplement Right Middle Lobe Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU587Z	Supplement Right Middle Lobe Bronchus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU58JZ	Supplement Right Middle Lobe Bronchus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU58KZ	Supplement Right Middle Lobe Bronchus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU607Z	Supplement Right Lower Lobe Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU60JZ	Supplement Right Lower Lobe Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BU60KZ	Supplement Right Lower Lobe Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU647Z	Supplement Right Lower Lobe Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU64JZ	Supplement Right Lower Lobe Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU64KZ	Supplement Right Lower Lobe Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU687Z	Supplement Right Lower Lobe Bronchus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU68JZ	Supplement Right Lower Lobe Bronchus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU68KZ	Supplement Right Lower Lobe Bronchus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU707Z	Supplement Left Main Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU70JZ	Supplement Left Main Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BU70KZ	Supplement Left Main Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU747Z	Supplement Left Main Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU74JZ	Supplement Left Main Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU74KZ	Supplement Left Main Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU787Z	Supplement Left Main Bronchus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BU78JZ	Supplement Left Main Bronchus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU78KZ	Supplement Left Main Bronchus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU807Z	Supplement Left Upper Lobe Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU80JZ	Supplement Left Upper Lobe Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BU80KZ	Supplement Left Upper Lobe Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU847Z	Supplement Left Upper Lobe Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU84JZ	Supplement Left Upper Lobe Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU84KZ	Supplement Left Upper Lobe Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU887Z	Supplement Left Upper Lobe Bronchus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU88JZ	Supplement Left Upper Lobe Bronchus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU88KZ	Supplement Left Upper Lobe Bronchus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU907Z	Supplement Lingula Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU90JZ	Supplement Lingula Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BU90KZ	Supplement Lingula Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BU947Z	Supplement Lingula Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU94JZ	Supplement Lingula Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU94KZ	Supplement Lingula Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BU987Z	Supplement Lingula Bronchus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU98JZ	Supplement Lingula Bronchus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BU98KZ	Supplement Lingula Bronchus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BUB07Z	Supplement Left Lower Lobe Bronchus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BUB0JZ	Supplement Left Lower Lobe Bronchus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BUB0KZ	Supplement Left Lower Lobe Bronchus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BUB47Z	Supplement Left Lower Lobe Bronchus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUB4JZ	Supplement Left Lower Lobe Bronchus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUB4KZ	Supplement Left Lower Lobe Bronchus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUB87Z	Supplement Left Lower Lobe Bronchus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BUB8JZ	Supplement Left Lower Lobe Bronchus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BUB8KZ	Supplement Left Lower Lobe Bronchus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BUR07Z	Supplement Right Diaphragm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BUR0JZ	Supplement Right Diaphragm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BUR0KZ	Supplement Right Diaphragm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BUR47Z	Supplement Right Diaphragm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUR4JZ	Supplement Right Diaphragm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUR4KZ	Supplement Right Diaphragm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUS07Z	Supplement Left Diaphragm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BUS0JZ	Supplement Left Diaphragm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BUS0KZ	Supplement Left Diaphragm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BUS47Z	Supplement Left Diaphragm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUS4JZ	Supplement Left Diaphragm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUS4KZ	Supplement Left Diaphragm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUT07Z	Supplement Diaphragm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BUT0JZ	Supplement Diaphragm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0BUT0KZ	Supplement Diaphragm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0BUT47Z	Supplement Diaphragm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUT4JZ	Supplement Diaphragm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BUT4KZ	Supplement Diaphragm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV10CZ	Restriction of Trachea with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BV10DZ	Restriction of Trachea with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BV10ZZ	Restriction of Trachea, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BV13CZ	Restriction of Trachea with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV13DZ	Restriction of Trachea with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV13ZZ	Restriction of Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BV14CZ	Restriction of Trachea with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV14DZ	Restriction of Trachea with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV14ZZ	Restriction of Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV17DZ	Restriction of Trachea with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV17ZZ	Restriction of Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV18DZ	Restriction of Trachea with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV18ZZ	Restriction of Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV20CZ	Restriction of Carina with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BV20DZ	Restriction of Carina with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BV20ZZ	Restriction of Carina, Open Approach	PX	ICD-10-PCS
0BV23CZ	Restriction of Carina with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV23DZ	Restriction of Carina with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV23ZZ	Restriction of Carina, Percutaneous Approach	PX	ICD-10-PCS
0BV24CZ	Restriction of Carina with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV24DZ	Restriction of Carina with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV24ZZ	Restriction of Carina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV27DZ	Restriction of Carina with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV27ZZ	Restriction of Carina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV28DZ	Restriction of Carina with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV28ZZ	Restriction of Carina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV30CZ	Restriction of Right Main Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BV30DZ	Restriction of Right Main Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BV30ZZ	Restriction of Right Main Bronchus, Open Approach	PX	ICD-10-PCS
0BV33CZ	Restriction of Right Main Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV33DZ	Restriction of Right Main Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV33ZZ	Restriction of Right Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BV34CZ	Restriction of Right Main Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV34DZ	Restriction of Right Main Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV34ZZ	Restriction of Right Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV37DZ	Restriction of Right Main Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV37ZZ	Restriction of Right Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BV38DZ	Restriction of Right Main Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV38ZZ	Restriction of Right Main Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV40CZ	Restriction of Right Upper Lobe Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BV40DZ	Restriction of Right Upper Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BV40ZZ	Restriction of Right Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BV43CZ	Restriction of Right Upper Lobe Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV43DZ	Restriction of Right Upper Lobe Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV43ZZ	Restriction of Right Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BV44CZ	Restriction of Right Upper Lobe Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV44DZ	Restriction of Right Upper Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV44ZZ	Restriction of Right Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV47DZ	Restriction of Right Upper Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV47ZZ	Restriction of Right Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV48DZ	Restriction of Right Upper Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV48ZZ	Restriction of Right Upper Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV50CZ	Restriction of Right Middle Lobe Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BV50DZ	Restriction of Right Middle Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BV50ZZ	Restriction of Right Middle Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BV53CZ	Restriction of Right Middle Lobe Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV53DZ	Restriction of Right Middle Lobe Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV53ZZ	Restriction of Right Middle Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BV54CZ	Restriction of Right Middle Lobe Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV54DZ	Restriction of Right Middle Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV54ZZ	Restriction of Right Middle Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV57DZ	Restriction of Right Middle Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV57ZZ	Restriction of Right Middle Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV58DZ	Restriction of Right Middle Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BV58ZZ	Restriction of Right Middle Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV60CZ	Restriction of Right Lower Lobe Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BV60DZ	Restriction of Right Lower Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BV60ZZ	Restriction of Right Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BV63CZ	Restriction of Right Lower Lobe Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV63DZ	Restriction of Right Lower Lobe Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV63ZZ	Restriction of Right Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BV64CZ	Restriction of Right Lower Lobe Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV64DZ	Restriction of Right Lower Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV64ZZ	Restriction of Right Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV67DZ	Restriction of Right Lower Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV67ZZ	Restriction of Right Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV68DZ	Restriction of Right Lower Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV68ZZ	Restriction of Right Lower Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV70CZ	Restriction of Left Main Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BV70DZ	Restriction of Left Main Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BV70ZZ	Restriction of Left Main Bronchus, Open Approach	PX	ICD-10-PCS
0BV73CZ	Restriction of Left Main Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV73DZ	Restriction of Left Main Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV73ZZ	Restriction of Left Main Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BV74CZ	Restriction of Left Main Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV74DZ	Restriction of Left Main Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV74ZZ	Restriction of Left Main Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV77DZ	Restriction of Left Main Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV77ZZ	Restriction of Left Main Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV78DZ	Restriction of Left Main Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV78ZZ	Restriction of Left Main Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV80CZ	Restriction of Left Upper Lobe Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BV80DZ	Restriction of Left Upper Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BV80ZZ	Restriction of Left Upper Lobe Bronchus, Open Approach	PX	ICD-10-PCS
0BV83CZ	Restriction of Left Upper Lobe Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV83DZ	Restriction of Left Upper Lobe Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV83ZZ	Restriction of Left Upper Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BV84CZ	Restriction of Left Upper Lobe Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV84DZ	Restriction of Left Upper Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV84ZZ	Restriction of Left Upper Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV87DZ	Restriction of Left Upper Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV87ZZ	Restriction of Left Upper Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV88DZ	Restriction of Left Upper Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV88ZZ	Restriction of Left Upper Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV90CZ	Restriction of Lingula Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BV90DZ	Restriction of Lingula Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BV90ZZ	Restriction of Lingula Bronchus, Open Approach	PX	ICD-10-PCS
0BV93CZ	Restriction of Lingula Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV93DZ	Restriction of Lingula Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BV93ZZ	Restriction of Lingula Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BV94CZ	Restriction of Lingula Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV94DZ	Restriction of Lingula Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV94ZZ	Restriction of Lingula Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BV97DZ	Restriction of Lingula Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV97ZZ	Restriction of Lingula Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BV98DZ	Restriction of Lingula Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BV98ZZ	Restriction of Lingula Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BVB0CZ	Restriction of Left Lower Lobe Bronchus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0BVB0DZ	Restriction of Left Lower Lobe Bronchus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0BVB0ZZ	Restriction of Left Lower Lobe Bronchus, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BVB3CZ	Restriction of Left Lower Lobe Bronchus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BVB3DZ	Restriction of Left Lower Lobe Bronchus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0BVB3ZZ	Restriction of Left Lower Lobe Bronchus, Percutaneous Approach	PX	ICD-10-PCS
0BVB4CZ	Restriction of Left Lower Lobe Bronchus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BVB4DZ	Restriction of Left Lower Lobe Bronchus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BVB4ZZ	Restriction of Left Lower Lobe Bronchus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BVB7DZ	Restriction of Left Lower Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BVB7ZZ	Restriction of Left Lower Lobe Bronchus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BVB8DZ	Restriction of Left Lower Lobe Bronchus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BVB8ZZ	Restriction of Left Lower Lobe Bronchus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BW000Z	Revision of Drainage Device in Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BW002Z	Revision of Monitoring Device in Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BW003Z	Revision of Infusion Device in Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BW007Z	Revision of Autologous Tissue Substitute in Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BW00CZ	Revision of Extraluminal Device in Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BW00DZ	Revision of Intraluminal Device in Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BW00JZ	Revision of Synthetic Substitute in Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BW00KZ	Revision of Nonautologous Tissue Substitute in Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BW00YZ	Revision of Other Device in Tracheobronchial Tree, Open Approach	PX	ICD-10-PCS
0BW030Z	Revision of Drainage Device in Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BW032Z	Revision of Monitoring Device in Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BW033Z	Revision of Infusion Device in Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BW037Z	Revision of Autologous Tissue Substitute in Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BW03CZ	Revision of Extraluminal Device in Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BW03DZ	Revision of Intraluminal Device in Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BW03JZ	Revision of Synthetic Substitute in Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BW03KZ	Revision of Nonautologous Tissue Substitute in Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BW03YZ	Revision of Other Device in Tracheobronchial Tree, Percutaneous Approach	PX	ICD-10-PCS
0BW040Z	Revision of Drainage Device in Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BW042Z	Revision of Monitoring Device in Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW043Z	Revision of Infusion Device in Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW047Z	Revision of Autologous Tissue Substitute in Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW04CZ	Revision of Extraluminal Device in Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW04DZ	Revision of Intraluminal Device in Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW04JZ	Revision of Synthetic Substitute in Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW04KZ	Revision of Nonautologous Tissue Substitute in Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW04YZ	Revision of Other Device in Tracheobronchial Tree, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW077Z	Revision of Autologous Tissue Substitute in Tracheobronchial Tree, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BW07CZ	Revision of Extraluminal Device in Tracheobronchial Tree, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BW07JZ	Revision of Synthetic Substitute in Tracheobronchial Tree, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BW07KZ	Revision of Nonautologous Tissue Substitute in Tracheobronchial Tree, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BW087Z	Revision of Autologous Tissue Substitute in Tracheobronchial Tree, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BW08CZ	Revision of Extraluminal Device in Tracheobronchial Tree, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BW08JZ	Revision of Synthetic Substitute in Tracheobronchial Tree, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BW08KZ	Revision of Nonautologous Tissue Substitute in Tracheobronchial Tree, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BW100Z	Revision of Drainage Device in Trachea, Open Approach	PX	ICD-10-PCS
0BW102Z	Revision of Monitoring Device in Trachea, Open Approach	PX	ICD-10-PCS
0BW107Z	Revision of Autologous Tissue Substitute in Trachea, Open Approach	PX	ICD-10-PCS
0BW10CZ	Revision of Extraluminal Device in Trachea, Open Approach	PX	ICD-10-PCS
0BW10DZ	Revision of Intraluminal Device in Trachea, Open Approach	PX	ICD-10-PCS
0BW10FZ	Revision of Tracheostomy Device in Trachea, Open Approach	PX	ICD-10-PCS
0BW10JZ	Revision of Synthetic Substitute in Trachea, Open Approach	PX	ICD-10-PCS
0BW10KZ	Revision of Nonautologous Tissue Substitute in Trachea, Open Approach	PX	ICD-10-PCS
0BW130Z	Revision of Drainage Device in Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BW132Z	Revision of Monitoring Device in Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BW137Z	Revision of Autologous Tissue Substitute in Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BW13CZ	Revision of Extraluminal Device in Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BW13DZ	Revision of Intraluminal Device in Trachea, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BW13FZ	Revision of Tracheostomy Device in Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BW13JZ	Revision of Synthetic Substitute in Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BW13KZ	Revision of Nonautologous Tissue Substitute in Trachea, Percutaneous Approach	PX	ICD-10-PCS
0BW140Z	Revision of Drainage Device in Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW142Z	Revision of Monitoring Device in Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW147Z	Revision of Autologous Tissue Substitute in Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW14CZ	Revision of Extraluminal Device in Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW14DZ	Revision of Intraluminal Device in Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW14FZ	Revision of Tracheostomy Device in Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW14JZ	Revision of Synthetic Substitute in Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW14KZ	Revision of Nonautologous Tissue Substitute in Trachea, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BW177Z	Revision of Autologous Tissue Substitute in Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BW17CZ	Revision of Extraluminal Device in Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BW17JZ	Revision of Synthetic Substitute in Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BW17KZ	Revision of Nonautologous Tissue Substitute in Trachea, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BW187Z	Revision of Autologous Tissue Substitute in Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BW18CZ	Revision of Extraluminal Device in Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BW18JZ	Revision of Synthetic Substitute in Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BW18KZ	Revision of Nonautologous Tissue Substitute in Trachea, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BWK00Z	Revision of Drainage Device in Right Lung, Open Approach	PX	ICD-10-PCS
0BWK02Z	Revision of Monitoring Device in Right Lung, Open Approach	PX	ICD-10-PCS
0BWK03Z	Revision of Infusion Device in Right Lung, Open Approach	PX	ICD-10-PCS
0BWK0YZ	Revision of Other Device in Right Lung, Open Approach	PX	ICD-10-PCS
0BWK30Z	Revision of Drainage Device in Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BWK32Z	Revision of Monitoring Device in Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BWK33Z	Revision of Infusion Device in Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BWK3YZ	Revision of Other Device in Right Lung, Percutaneous Approach	PX	ICD-10-PCS
0BWK40Z	Revision of Drainage Device in Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWK42Z	Revision of Monitoring Device in Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWK43Z	Revision of Infusion Device in Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWK4YZ	Revision of Other Device in Right Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWK8YZ	Revision of Other Device in Right Lung, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BWL00Z	Revision of Drainage Device in Left Lung, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BWL02Z	Revision of Monitoring Device in Left Lung, Open Approach	PX	ICD-10-PCS
0BWL03Z	Revision of Infusion Device in Left Lung, Open Approach	PX	ICD-10-PCS
0BWL0YZ	Revision of Other Device in Left Lung, Open Approach	PX	ICD-10-PCS
0BWL30Z	Revision of Drainage Device in Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BWL32Z	Revision of Monitoring Device in Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BWL33Z	Revision of Infusion Device in Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BWL3YZ	Revision of Other Device in Left Lung, Percutaneous Approach	PX	ICD-10-PCS
0BWL40Z	Revision of Drainage Device in Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWL42Z	Revision of Monitoring Device in Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWL43Z	Revision of Infusion Device in Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWL4YZ	Revision of Other Device in Left Lung, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWL8YZ	Revision of Other Device in Left Lung, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BWQ00Z	Revision of Drainage Device in Pleura, Open Approach	PX	ICD-10-PCS
0BWQ02Z	Revision of Monitoring Device in Pleura, Open Approach	PX	ICD-10-PCS
0BWQ0YZ	Revision of Other Device in Pleura, Open Approach	PX	ICD-10-PCS
0BWQ40Z	Revision of Drainage Device in Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWQ42Z	Revision of Monitoring Device in Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWQ4YZ	Revision of Other Device in Pleura, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWQ8YZ	Revision of Other Device in Pleura, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BWT00Z	Revision of Drainage Device in Diaphragm, Open Approach	PX	ICD-10-PCS
0BWT02Z	Revision of Monitoring Device in Diaphragm, Open Approach	PX	ICD-10-PCS
0BWT07Z	Revision of Autologous Tissue Substitute in Diaphragm, Open Approach	PX	ICD-10-PCS
0BWT0JZ	Revision of Synthetic Substitute in Diaphragm, Open Approach	PX	ICD-10-PCS
0BWT0KZ	Revision of Nonautologous Tissue Substitute in Diaphragm, Open Approach	PX	ICD-10-PCS
0BWT0MZ	Revision of Diaphragmatic Pacemaker Lead in Diaphragm, Open Approach	PX	ICD-10-PCS
0BWT0YZ	Revision of Other Device in Diaphragm, Open Approach	PX	ICD-10-PCS
0BWT30Z	Revision of Drainage Device in Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BWT32Z	Revision of Monitoring Device in Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BWT37Z	Revision of Autologous Tissue Substitute in Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BWT3JZ	Revision of Synthetic Substitute in Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BWT3KZ	Revision of Nonautologous Tissue Substitute in Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BWT3MZ	Revision of Diaphragmatic Pacemaker Lead in Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BWT3YZ	Revision of Other Device in Diaphragm, Percutaneous Approach	PX	ICD-10-PCS
0BWT40Z	Revision of Drainage Device in Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWT42Z	Revision of Monitoring Device in Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWT47Z	Revision of Autologous Tissue Substitute in Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWT4JZ	Revision of Synthetic Substitute in Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWT4KZ	Revision of Nonautologous Tissue Substitute in Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BWT4MZ	Revision of Diaphragmatic Pacemaker Lead in Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWT4YZ	Revision of Other Device in Diaphragm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0BWT70Z	Revision of Drainage Device in Diaphragm, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BWT72Z	Revision of Monitoring Device in Diaphragm, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BWT77Z	Revision of Autologous Tissue Substitute in Diaphragm, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BWT7JZ	Revision of Synthetic Substitute in Diaphragm, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BWT7KZ	Revision of Nonautologous Tissue Substitute in Diaphragm, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BWT7MZ	Revision of Diaphragmatic Pacemaker Lead in Diaphragm, Via Natural or Artificial Opening	PX	ICD-10-PCS
0BWT80Z	Revision of Drainage Device in Diaphragm, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BWT82Z	Revision of Monitoring Device in Diaphragm, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BWT87Z	Revision of Autologous Tissue Substitute in Diaphragm, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BWT8JZ	Revision of Synthetic Substitute in Diaphragm, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BWT8KZ	Revision of Nonautologous Tissue Substitute in Diaphragm, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BWT8MZ	Revision of Diaphragmatic Pacemaker Lead in Diaphragm, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0BYC0Z0	Transplantation of Right Upper Lung Lobe, Allogeneic, Open Approach	PX	ICD-10-PCS
0BYC0Z1	Transplantation of Right Upper Lung Lobe, Syngeneic, Open Approach	PX	ICD-10-PCS
0BYC0Z2	Transplantation of Right Upper Lung Lobe, Zooplastic, Open Approach	PX	ICD-10-PCS
0BYD0Z0	Transplantation of Right Middle Lung Lobe, Allogeneic, Open Approach	PX	ICD-10-PCS
0BYD0Z1	Transplantation of Right Middle Lung Lobe, Syngeneic, Open Approach	PX	ICD-10-PCS
0BYD0Z2	Transplantation of Right Middle Lung Lobe, Zooplastic, Open Approach	PX	ICD-10-PCS
0BYF0Z0	Transplantation of Right Lower Lung Lobe, Allogeneic, Open Approach	PX	ICD-10-PCS
0BYF0Z1	Transplantation of Right Lower Lung Lobe, Syngeneic, Open Approach	PX	ICD-10-PCS
0BYF0Z2	Transplantation of Right Lower Lung Lobe, Zooplastic, Open Approach	PX	ICD-10-PCS
0BYG0Z0	Transplantation of Left Upper Lung Lobe, Allogeneic, Open Approach	PX	ICD-10-PCS
0BYG0Z1	Transplantation of Left Upper Lung Lobe, Syngeneic, Open Approach	PX	ICD-10-PCS
0BYG0Z2	Transplantation of Left Upper Lung Lobe, Zooplastic, Open Approach	PX	ICD-10-PCS
0BYH0Z0	Transplantation of Lung Lingula, Allogeneic, Open Approach	PX	ICD-10-PCS
0BYH0Z1	Transplantation of Lung Lingula, Syngeneic, Open Approach	PX	ICD-10-PCS
0BYH0Z2	Transplantation of Lung Lingula, Zooplastic, Open Approach	PX	ICD-10-PCS
0BYJ0Z0	Transplantation of Left Lower Lung Lobe, Allogeneic, Open Approach	PX	ICD-10-PCS
0BYJ0Z1	Transplantation of Left Lower Lung Lobe, Syngeneic, Open Approach	PX	ICD-10-PCS
0BYJ0Z2	Transplantation of Left Lower Lung Lobe, Zooplastic, Open Approach	PX	ICD-10-PCS
0BYK0Z0	Transplantation of Right Lung, Allogeneic, Open Approach	PX	ICD-10-PCS
0BYK0Z1	Transplantation of Right Lung, Syngeneic, Open Approach	PX	ICD-10-PCS
0BYK0Z2	Transplantation of Right Lung, Zooplastic, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0BYL0Z0	Transplantation of Left Lung, Allogeneic, Open Approach	PX	ICD-10-PCS
0BYL0Z1	Transplantation of Left Lung, Syngeneic, Open Approach	PX	ICD-10-PCS
0BYL0Z2	Transplantation of Left Lung, Zooplastic, Open Approach	PX	ICD-10-PCS
0BYM0Z0	Transplantation of Bilateral Lungs, Allogeneic, Open Approach	PX	ICD-10-PCS
0BYM0Z1	Transplantation of Bilateral Lungs, Syngeneic, Open Approach	PX	ICD-10-PCS
0BYM0Z2	Transplantation of Bilateral Lungs, Zooplastic, Open Approach	PX	ICD-10-PCS
0C00X7Z	Alteration of Upper Lip with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0C00XJZ	Alteration of Upper Lip with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0C00XKZ	Alteration of Upper Lip with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0C00XZZ	Alteration of Upper Lip, External Approach	PX	ICD-10-PCS
0C01X7Z	Alteration of Lower Lip with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0C01XJZ	Alteration of Lower Lip with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0C01XKZ	Alteration of Lower Lip with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0C01XZZ	Alteration of Lower Lip, External Approach	PX	ICD-10-PCS
0C500ZZ	Destruction of Upper Lip, Open Approach	PX	ICD-10-PCS
0C503ZZ	Destruction of Upper Lip, Percutaneous Approach	PX	ICD-10-PCS
0C50XZZ	Destruction of Upper Lip, External Approach	PX	ICD-10-PCS
0C510ZZ	Destruction of Lower Lip, Open Approach	PX	ICD-10-PCS
0C513ZZ	Destruction of Lower Lip, Percutaneous Approach	PX	ICD-10-PCS
0C51XZZ	Destruction of Lower Lip, External Approach	PX	ICD-10-PCS
0C520ZZ	Destruction of Hard Palate, Open Approach	PX	ICD-10-PCS
0C523ZZ	Destruction of Hard Palate, Percutaneous Approach	PX	ICD-10-PCS
0C52XZZ	Destruction of Hard Palate, External Approach	PX	ICD-10-PCS
0C530ZZ	Destruction of Soft Palate, Open Approach	PX	ICD-10-PCS
0C533ZZ	Destruction of Soft Palate, Percutaneous Approach	PX	ICD-10-PCS
0C53XZZ	Destruction of Soft Palate, External Approach	PX	ICD-10-PCS
0C540ZZ	Destruction of Buccal Mucosa, Open Approach	PX	ICD-10-PCS
0C543ZZ	Destruction of Buccal Mucosa, Percutaneous Approach	PX	ICD-10-PCS
0C54XZZ	Destruction of Buccal Mucosa, External Approach	PX	ICD-10-PCS
0C570ZZ	Destruction of Tongue, Open Approach	PX	ICD-10-PCS
0C573ZZ	Destruction of Tongue, Percutaneous Approach	PX	ICD-10-PCS
0C57XZZ	Destruction of Tongue, External Approach	PX	ICD-10-PCS
0C580ZZ	Destruction of Right Parotid Gland, Open Approach	PX	ICD-10-PCS
0C583ZZ	Destruction of Right Parotid Gland, Percutaneous Approach	PX	ICD-10-PCS
0C590ZZ	Destruction of Left Parotid Gland, Open Approach	PX	ICD-10-PCS
0C593ZZ	Destruction of Left Parotid Gland, Percutaneous Approach	PX	ICD-10-PCS
0C5B0ZZ	Destruction of Right Parotid Duct, Open Approach	PX	ICD-10-PCS
0C5B3ZZ	Destruction of Right Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0C5C0ZZ	Destruction of Left Parotid Duct, Open Approach	PX	ICD-10-PCS
0C5C3ZZ	Destruction of Left Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0C5D0ZZ	Destruction of Right Sublingual Gland, Open Approach	PX	ICD-10-PCS
0C5D3ZZ	Destruction of Right Sublingual Gland, Percutaneous Approach	PX	ICD-10-PCS
0C5F0ZZ	Destruction of Left Sublingual Gland, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0C5F3ZZ	Destruction of Left Sublingual Gland, Percutaneous Approach	PX	ICD-10-PCS
0C5G0ZZ	Destruction of Right Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0C5G3ZZ	Destruction of Right Submaxillary Gland, Percutaneous Approach	PX	ICD-10-PCS
0C5H0ZZ	Destruction of Left Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0C5H3ZZ	Destruction of Left Submaxillary Gland, Percutaneous Approach	PX	ICD-10-PCS
0C5J0ZZ	Destruction of Minor Salivary Gland, Open Approach	PX	ICD-10-PCS
0C5J3ZZ	Destruction of Minor Salivary Gland, Percutaneous Approach	PX	ICD-10-PCS
0C5M0ZZ	Destruction of Pharynx, Open Approach	PX	ICD-10-PCS
0C5M3ZZ	Destruction of Pharynx, Percutaneous Approach	PX	ICD-10-PCS
0C5M4ZZ	Destruction of Pharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C5M7ZZ	Destruction of Pharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C5M8ZZ	Destruction of Pharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C5N0ZZ	Destruction of Uvula, Open Approach	PX	ICD-10-PCS
0C5N3ZZ	Destruction of Uvula, Percutaneous Approach	PX	ICD-10-PCS
0C5NXZZ	Destruction of Uvula, External Approach	PX	ICD-10-PCS
0C5P0ZZ	Destruction of Tonsils, Open Approach	PX	ICD-10-PCS
0C5P3ZZ	Destruction of Tonsils, Percutaneous Approach	PX	ICD-10-PCS
0C5PXZZ	Destruction of Tonsils, External Approach	PX	ICD-10-PCS
0C5Q0ZZ	Destruction of Adenoids, Open Approach	PX	ICD-10-PCS
0C5Q3ZZ	Destruction of Adenoids, Percutaneous Approach	PX	ICD-10-PCS
0C5QXZZ	Destruction of Adenoids, External Approach	PX	ICD-10-PCS
0C5R0ZZ	Destruction of Epiglottis, Open Approach	PX	ICD-10-PCS
0C5R3ZZ	Destruction of Epiglottis, Percutaneous Approach	PX	ICD-10-PCS
0C5R4ZZ	Destruction of Epiglottis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C5R7ZZ	Destruction of Epiglottis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C5R8ZZ	Destruction of Epiglottis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C5S0ZZ	Destruction of Larynx, Open Approach	PX	ICD-10-PCS
0C5S3ZZ	Destruction of Larynx, Percutaneous Approach	PX	ICD-10-PCS
0C5S4ZZ	Destruction of Larynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C5S7ZZ	Destruction of Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C5S8ZZ	Destruction of Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C5T0ZZ	Destruction of Right Vocal Cord, Open Approach	PX	ICD-10-PCS
0C5T3ZZ	Destruction of Right Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0C5T4ZZ	Destruction of Right Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C5T7ZZ	Destruction of Right Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C5T8ZZ	Destruction of Right Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C5V0ZZ	Destruction of Left Vocal Cord, Open Approach	PX	ICD-10-PCS
0C5V3ZZ	Destruction of Left Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0C5V4ZZ	Destruction of Left Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C5V7ZZ	Destruction of Left Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C5V8ZZ	Destruction of Left Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C7S0DZ	Dilation of Larynx with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0C7S0ZZ	Dilation of Larynx, Open Approach	PX	ICD-10-PCS
0C7S3DZ	Dilation of Larynx with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0C7S3ZZ	Dilation of Larynx, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0C7S4DZ	Dilation of Larynx with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C7S4ZZ	Dilation of Larynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C7S7DZ	Dilation of Larynx with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C7S7ZZ	Dilation of Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C7S8DZ	Dilation of Larynx with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C7S8ZZ	Dilation of Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C9000Z	Drainage of Upper Lip with Drainage Device, Open Approach	PX	ICD-10-PCS
0C900ZZ	Drainage of Upper Lip, Open Approach	PX	ICD-10-PCS
0C90X0Z	Drainage of Upper Lip with Drainage Device, External Approach	PX	ICD-10-PCS
0C90XZZ	Drainage of Upper Lip, External Approach	PX	ICD-10-PCS
0C9100Z	Drainage of Lower Lip with Drainage Device, Open Approach	PX	ICD-10-PCS
0C910ZZ	Drainage of Lower Lip, Open Approach	PX	ICD-10-PCS
0C91X0Z	Drainage of Lower Lip with Drainage Device, External Approach	PX	ICD-10-PCS
0C91XZZ	Drainage of Lower Lip, External Approach	PX	ICD-10-PCS
0C9200Z	Drainage of Hard Palate with Drainage Device, Open Approach	PX	ICD-10-PCS
0C920ZZ	Drainage of Hard Palate, Open Approach	PX	ICD-10-PCS
0C92X0Z	Drainage of Hard Palate with Drainage Device, External Approach	PX	ICD-10-PCS
0C92XZZ	Drainage of Hard Palate, External Approach	PX	ICD-10-PCS
0C9300Z	Drainage of Soft Palate with Drainage Device, Open Approach	PX	ICD-10-PCS
0C930ZZ	Drainage of Soft Palate, Open Approach	PX	ICD-10-PCS
0C93X0Z	Drainage of Soft Palate with Drainage Device, External Approach	PX	ICD-10-PCS
0C93XZZ	Drainage of Soft Palate, External Approach	PX	ICD-10-PCS
0C9400Z	Drainage of Buccal Mucosa with Drainage Device, Open Approach	PX	ICD-10-PCS
0C940ZZ	Drainage of Buccal Mucosa, Open Approach	PX	ICD-10-PCS
0C94X0Z	Drainage of Buccal Mucosa with Drainage Device, External Approach	PX	ICD-10-PCS
0C94XZZ	Drainage of Buccal Mucosa, External Approach	PX	ICD-10-PCS
0C9700Z	Drainage of Tongue with Drainage Device, Open Approach	PX	ICD-10-PCS
0C970ZZ	Drainage of Tongue, Open Approach	PX	ICD-10-PCS
0C97X0Z	Drainage of Tongue with Drainage Device, External Approach	PX	ICD-10-PCS
0C97XZZ	Drainage of Tongue, External Approach	PX	ICD-10-PCS
0C980ZZ	Drainage of Right Parotid Gland, Open Approach	PX	ICD-10-PCS
0C990ZZ	Drainage of Left Parotid Gland, Open Approach	PX	ICD-10-PCS
0C9B0ZZ	Drainage of Right Parotid Duct, Open Approach	PX	ICD-10-PCS
0C9C0ZZ	Drainage of Left Parotid Duct, Open Approach	PX	ICD-10-PCS
0C9D0ZZ	Drainage of Right Sublingual Gland, Open Approach	PX	ICD-10-PCS
0C9F0ZZ	Drainage of Left Sublingual Gland, Open Approach	PX	ICD-10-PCS
0C9G0ZZ	Drainage of Right Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0C9H0ZZ	Drainage of Left Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0C9J0ZZ	Drainage of Minor Salivary Gland, Open Approach	PX	ICD-10-PCS
0C9M00Z	Drainage of Pharynx with Drainage Device, Open Approach	PX	ICD-10-PCS
0C9M0ZZ	Drainage of Pharynx, Open Approach	PX	ICD-10-PCS
0C9M40Z	Drainage of Pharynx with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C9M4ZZ	Drainage of Pharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C9M70Z	Drainage of Pharynx with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0C9M80Z	Drainage of Pharynx with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C9N00Z	Drainage of Uvula with Drainage Device, Open Approach	PX	ICD-10-PCS
0C9N0ZZ	Drainage of Uvula, Open Approach	PX	ICD-10-PCS
0C9NX0Z	Drainage of Uvula with Drainage Device, External Approach	PX	ICD-10-PCS
0C9NXZZ	Drainage of Uvula, External Approach	PX	ICD-10-PCS
0C9P00Z	Drainage of Tonsils with Drainage Device, Open Approach	PX	ICD-10-PCS
0C9P0ZZ	Drainage of Tonsils, Open Approach	PX	ICD-10-PCS
0C9PX0Z	Drainage of Tonsils with Drainage Device, External Approach	PX	ICD-10-PCS
0C9PXZZ	Drainage of Tonsils, External Approach	PX	ICD-10-PCS
0C9Q00Z	Drainage of Adenoids with Drainage Device, Open Approach	PX	ICD-10-PCS
0C9Q0ZZ	Drainage of Adenoids, Open Approach	PX	ICD-10-PCS
0C9QX0Z	Drainage of Adenoids with Drainage Device, External Approach	PX	ICD-10-PCS
0C9QXZZ	Drainage of Adenoids, External Approach	PX	ICD-10-PCS
0C9R00Z	Drainage of Epiglottis with Drainage Device, Open Approach	PX	ICD-10-PCS
0C9R0ZZ	Drainage of Epiglottis, Open Approach	PX	ICD-10-PCS
0C9R40Z	Drainage of Epiglottis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C9R4ZZ	Drainage of Epiglottis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C9R70Z	Drainage of Epiglottis with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C9R7ZZ	Drainage of Epiglottis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C9R80Z	Drainage of Epiglottis with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C9R8ZZ	Drainage of Epiglottis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C9S00Z	Drainage of Larynx with Drainage Device, Open Approach	PX	ICD-10-PCS
0C9S0ZZ	Drainage of Larynx, Open Approach	PX	ICD-10-PCS
0C9S40Z	Drainage of Larynx with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C9S4ZZ	Drainage of Larynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C9S70Z	Drainage of Larynx with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C9S7ZZ	Drainage of Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C9S80Z	Drainage of Larynx with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C9S8ZZ	Drainage of Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C9T00Z	Drainage of Right Vocal Cord with Drainage Device, Open Approach	PX	ICD-10-PCS
0C9T0ZZ	Drainage of Right Vocal Cord, Open Approach	PX	ICD-10-PCS
0C9T40Z	Drainage of Right Vocal Cord with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C9T4ZZ	Drainage of Right Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C9T70Z	Drainage of Right Vocal Cord with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C9T7ZZ	Drainage of Right Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C9T80Z	Drainage of Right Vocal Cord with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C9T8ZZ	Drainage of Right Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C9V00Z	Drainage of Left Vocal Cord with Drainage Device, Open Approach	PX	ICD-10-PCS
0C9V0ZZ	Drainage of Left Vocal Cord, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0C9V40Z	Drainage of Left Vocal Cord with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C9V4ZZ	Drainage of Left Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0C9V70Z	Drainage of Left Vocal Cord with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C9V7ZZ	Drainage of Left Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0C9V80Z	Drainage of Left Vocal Cord with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0C9V8ZZ	Drainage of Left Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CB00ZZ	Excision of Upper Lip, Open Approach	PX	ICD-10-PCS
0CB03ZZ	Excision of Upper Lip, Percutaneous Approach	PX	ICD-10-PCS
0CB0XZZ	Excision of Upper Lip, External Approach	PX	ICD-10-PCS
0CB10ZZ	Excision of Lower Lip, Open Approach	PX	ICD-10-PCS
0CB13ZZ	Excision of Lower Lip, Percutaneous Approach	PX	ICD-10-PCS
0CB1XZZ	Excision of Lower Lip, External Approach	PX	ICD-10-PCS
0CB20ZZ	Excision of Hard Palate, Open Approach	PX	ICD-10-PCS
0CB23ZZ	Excision of Hard Palate, Percutaneous Approach	PX	ICD-10-PCS
0CB2XZZ	Excision of Hard Palate, External Approach	PX	ICD-10-PCS
0CB30ZZ	Excision of Soft Palate, Open Approach	PX	ICD-10-PCS
0CB33ZZ	Excision of Soft Palate, Percutaneous Approach	PX	ICD-10-PCS
0CB3XZZ	Excision of Soft Palate, External Approach	PX	ICD-10-PCS
0CB40ZZ	Excision of Buccal Mucosa, Open Approach	PX	ICD-10-PCS
0CB43ZZ	Excision of Buccal Mucosa, Percutaneous Approach	PX	ICD-10-PCS
0CB4XZZ	Excision of Buccal Mucosa, External Approach	PX	ICD-10-PCS
0CB70ZZ	Excision of Tongue, Open Approach	PX	ICD-10-PCS
0CB73ZZ	Excision of Tongue, Percutaneous Approach	PX	ICD-10-PCS
0CB7XZZ	Excision of Tongue, External Approach	PX	ICD-10-PCS
0CB80ZZ	Excision of Right Parotid Gland, Open Approach	PX	ICD-10-PCS
0CB83ZZ	Excision of Right Parotid Gland, Percutaneous Approach	PX	ICD-10-PCS
0CB90ZZ	Excision of Left Parotid Gland, Open Approach	PX	ICD-10-PCS
0CB93ZZ	Excision of Left Parotid Gland, Percutaneous Approach	PX	ICD-10-PCS
0CBB0ZZ	Excision of Right Parotid Duct, Open Approach	PX	ICD-10-PCS
0CBB3ZZ	Excision of Right Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CBC0ZZ	Excision of Left Parotid Duct, Open Approach	PX	ICD-10-PCS
0CBC3ZZ	Excision of Left Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CBD0ZZ	Excision of Right Sublingual Gland, Open Approach	PX	ICD-10-PCS
0CBD3ZZ	Excision of Right Sublingual Gland, Percutaneous Approach	PX	ICD-10-PCS
0CBF0ZZ	Excision of Left Sublingual Gland, Open Approach	PX	ICD-10-PCS
0CBF3ZZ	Excision of Left Sublingual Gland, Percutaneous Approach	PX	ICD-10-PCS
0CBG0ZZ	Excision of Right Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0CBG3ZZ	Excision of Right Submaxillary Gland, Percutaneous Approach	PX	ICD-10-PCS
0CBH0ZZ	Excision of Left Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0CBH3ZZ	Excision of Left Submaxillary Gland, Percutaneous Approach	PX	ICD-10-PCS
0CBJ0ZZ	Excision of Minor Salivary Gland, Open Approach	PX	ICD-10-PCS
0CBJ3ZZ	Excision of Minor Salivary Gland, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CBM0ZZ	Excision of Pharynx, Open Approach	PX	ICD-10-PCS
0CBM3ZZ	Excision of Pharynx, Percutaneous Approach	PX	ICD-10-PCS
0CBM4ZZ	Excision of Pharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CBM7ZZ	Excision of Pharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CBM8ZZ	Excision of Pharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CBN0ZZ	Excision of Uvula, Open Approach	PX	ICD-10-PCS
0CBN3ZZ	Excision of Uvula, Percutaneous Approach	PX	ICD-10-PCS
0CBNXZZ	Excision of Uvula, External Approach	PX	ICD-10-PCS
0CBP0ZZ	Excision of Tonsils, Open Approach	PX	ICD-10-PCS
0CBP3ZZ	Excision of Tonsils, Percutaneous Approach	PX	ICD-10-PCS
0CBPXZZ	Excision of Tonsils, External Approach	PX	ICD-10-PCS
0CBQ0ZZ	Excision of Adenoids, Open Approach	PX	ICD-10-PCS
0CBQ3ZZ	Excision of Adenoids, Percutaneous Approach	PX	ICD-10-PCS
0CBQXZZ	Excision of Adenoids, External Approach	PX	ICD-10-PCS
0CBR0ZZ	Excision of Epiglottis, Open Approach	PX	ICD-10-PCS
0CBR3ZZ	Excision of Epiglottis, Percutaneous Approach	PX	ICD-10-PCS
0CBR4ZZ	Excision of Epiglottis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CBR7ZZ	Excision of Epiglottis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CBR8ZZ	Excision of Epiglottis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CBS0ZZ	Excision of Larynx, Open Approach	PX	ICD-10-PCS
0CBS3ZZ	Excision of Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CBS4ZZ	Excision of Larynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CBS7ZZ	Excision of Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CBS8ZZ	Excision of Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CBT0ZZ	Excision of Right Vocal Cord, Open Approach	PX	ICD-10-PCS
0CBT3ZZ	Excision of Right Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0CBT4ZZ	Excision of Right Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CBT7ZZ	Excision of Right Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CBT8ZZ	Excision of Right Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CBV0ZZ	Excision of Left Vocal Cord, Open Approach	PX	ICD-10-PCS
0CBV3ZZ	Excision of Left Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0CBV4ZZ	Excision of Left Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CBV7ZZ	Excision of Left Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CBV8ZZ	Excision of Left Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CC00ZZ	Extirpation of Matter from Upper Lip, Open Approach	PX	ICD-10-PCS
0CC03ZZ	Extirpation of Matter from Upper Lip, Percutaneous Approach	PX	ICD-10-PCS
0CC10ZZ	Extirpation of Matter from Lower Lip, Open Approach	PX	ICD-10-PCS
0CC13ZZ	Extirpation of Matter from Lower Lip, Percutaneous Approach	PX	ICD-10-PCS
0CC20ZZ	Extirpation of Matter from Hard Palate, Open Approach	PX	ICD-10-PCS
0CC23ZZ	Extirpation of Matter from Hard Palate, Percutaneous Approach	PX	ICD-10-PCS
0CC30ZZ	Extirpation of Matter from Soft Palate, Open Approach	PX	ICD-10-PCS
0CC33ZZ	Extirpation of Matter from Soft Palate, Percutaneous Approach	PX	ICD-10-PCS
0CC40ZZ	Extirpation of Matter from Buccal Mucosa, Open Approach	PX	ICD-10-PCS
0CC43ZZ	Extirpation of Matter from Buccal Mucosa, Percutaneous Approach	PX	ICD-10-PCS
0CC70ZZ	Extirpation of Matter from Tongue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CC73ZZ	Extirpation of Matter from Tongue, Percutaneous Approach	PX	ICD-10-PCS
0CCM0ZZ	Extirpation of Matter from Pharynx, Open Approach	PX	ICD-10-PCS
0CCM3ZZ	Extirpation of Matter from Pharynx, Percutaneous Approach	PX	ICD-10-PCS
0CCM4ZZ	Extirpation of Matter from Pharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CCN0ZZ	Extirpation of Matter from Uvula, Open Approach	PX	ICD-10-PCS
0CCN3ZZ	Extirpation of Matter from Uvula, Percutaneous Approach	PX	ICD-10-PCS
0CCP0ZZ	Extirpation of Matter from Tonsils, Open Approach	PX	ICD-10-PCS
0CCP3ZZ	Extirpation of Matter from Tonsils, Percutaneous Approach	PX	ICD-10-PCS
0CCQ0ZZ	Extirpation of Matter from Adenoids, Open Approach	PX	ICD-10-PCS
0CCQ3ZZ	Extirpation of Matter from Adenoids, Percutaneous Approach	PX	ICD-10-PCS
0CCR0ZZ	Extirpation of Matter from Epiglottis, Open Approach	PX	ICD-10-PCS
0CCR3ZZ	Extirpation of Matter from Epiglottis, Percutaneous Approach	PX	ICD-10-PCS
0CCR4ZZ	Extirpation of Matter from Epiglottis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CCR7ZZ	Extirpation of Matter from Epiglottis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CCR8ZZ	Extirpation of Matter from Epiglottis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CCS0ZZ	Extirpation of Matter from Larynx, Open Approach	PX	ICD-10-PCS
0CCS3ZZ	Extirpation of Matter from Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CCS4ZZ	Extirpation of Matter from Larynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CCT0ZZ	Extirpation of Matter from Right Vocal Cord, Open Approach	PX	ICD-10-PCS
0CCT3ZZ	Extirpation of Matter from Right Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0CCT4ZZ	Extirpation of Matter from Right Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CCT7ZZ	Extirpation of Matter from Right Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CCT8ZZ	Extirpation of Matter from Right Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CCV0ZZ	Extirpation of Matter from Left Vocal Cord, Open Approach	PX	ICD-10-PCS
0CCV3ZZ	Extirpation of Matter from Left Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0CCV4ZZ	Extirpation of Matter from Left Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CCV7ZZ	Extirpation of Matter from Left Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CCV8ZZ	Extirpation of Matter from Left Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CDT0ZZ	Extraction of Right Vocal Cord, Open Approach	PX	ICD-10-PCS
0CDT3ZZ	Extraction of Right Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0CDT4ZZ	Extraction of Right Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CDT7ZZ	Extraction of Right Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CDT8ZZ	Extraction of Right Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CDV0ZZ	Extraction of Left Vocal Cord, Open Approach	PX	ICD-10-PCS
0CDV3ZZ	Extraction of Left Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0CDV4ZZ	Extraction of Left Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CDV7ZZ	Extraction of Left Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CDV8ZZ	Extraction of Left Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CFB0ZZ	Fragmentation in Right Parotid Duct, Open Approach	PX	ICD-10-PCS
0CFC0ZZ	Fragmentation in Left Parotid Duct, Open Approach	PX	ICD-10-PCS
0CH701Z	Insertion of Radioactive Element into Tongue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CHA01Z	Insertion of Radioactive Element into Salivary Gland, Open Approach	PX	ICD-10-PCS
0CHA0YZ	Insertion of Other Device into Salivary Gland, Open Approach	PX	ICD-10-PCS
0CHS01Z	Insertion of Radioactive Element into Larynx, Open Approach	PX	ICD-10-PCS
0CHS0YZ	Insertion of Other Device into Larynx, Open Approach	PX	ICD-10-PCS
0CHY01Z	Insertion of Radioactive Element into Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CHY0YZ	Insertion of Other Device into Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CLB0CZ	Occlusion of Right Parotid Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0CLB0DZ	Occlusion of Right Parotid Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0CLB0ZZ	Occlusion of Right Parotid Duct, Open Approach	PX	ICD-10-PCS
0CLB3CZ	Occlusion of Right Parotid Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0CLB3DZ	Occlusion of Right Parotid Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0CLB3ZZ	Occlusion of Right Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CLB4CZ	Occlusion of Right Parotid Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CLB4DZ	Occlusion of Right Parotid Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CLB4ZZ	Occlusion of Right Parotid Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CLB7DZ	Occlusion of Right Parotid Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CLB7ZZ	Occlusion of Right Parotid Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CLB8DZ	Occlusion of Right Parotid Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CLB8ZZ	Occlusion of Right Parotid Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CLC0CZ	Occlusion of Left Parotid Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0CLC0DZ	Occlusion of Left Parotid Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0CLC0ZZ	Occlusion of Left Parotid Duct, Open Approach	PX	ICD-10-PCS
0CLC3CZ	Occlusion of Left Parotid Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0CLC3DZ	Occlusion of Left Parotid Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0CLC3ZZ	Occlusion of Left Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CLC4CZ	Occlusion of Left Parotid Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CLC4DZ	Occlusion of Left Parotid Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CLC4ZZ	Occlusion of Left Parotid Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CLC7DZ	Occlusion of Left Parotid Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CLC7ZZ	Occlusion of Left Parotid Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CLC8DZ	Occlusion of Left Parotid Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CLC8ZZ	Occlusion of Left Parotid Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CM00ZZ	Reattachment of Upper Lip, Open Approach	PX	ICD-10-PCS
0CM10ZZ	Reattachment of Lower Lip, Open Approach	PX	ICD-10-PCS
0CM30ZZ	Reattachment of Soft Palate, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CM70ZZ	Reattachment of Tongue, Open Approach	PX	ICD-10-PCS
0CMN0ZZ	Reattachment of Uvula, Open Approach	PX	ICD-10-PCS
0CN20ZZ	Release Hard Palate, Open Approach	PX	ICD-10-PCS
0CN23ZZ	Release Hard Palate, Percutaneous Approach	PX	ICD-10-PCS
0CN2XZZ	Release Hard Palate, External Approach	PX	ICD-10-PCS
0CN30ZZ	Release Soft Palate, Open Approach	PX	ICD-10-PCS
0CN33ZZ	Release Soft Palate, Percutaneous Approach	PX	ICD-10-PCS
0CN3XZZ	Release Soft Palate, External Approach	PX	ICD-10-PCS
0CN40ZZ	Release Buccal Mucosa, Open Approach	PX	ICD-10-PCS
0CN43ZZ	Release Buccal Mucosa, Percutaneous Approach	PX	ICD-10-PCS
0CN80ZZ	Release Right Parotid Gland, Open Approach	PX	ICD-10-PCS
0CN83ZZ	Release Right Parotid Gland, Percutaneous Approach	PX	ICD-10-PCS
0CN90ZZ	Release Left Parotid Gland, Open Approach	PX	ICD-10-PCS
0CN93ZZ	Release Left Parotid Gland, Percutaneous Approach	PX	ICD-10-PCS
0CNB0ZZ	Release Right Parotid Duct, Open Approach	PX	ICD-10-PCS
0CNB3ZZ	Release Right Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CNC0ZZ	Release Left Parotid Duct, Open Approach	PX	ICD-10-PCS
0CNC3ZZ	Release Left Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CND0ZZ	Release Right Sublingual Gland, Open Approach	PX	ICD-10-PCS
0CND3ZZ	Release Right Sublingual Gland, Percutaneous Approach	PX	ICD-10-PCS
0CNF0ZZ	Release Left Sublingual Gland, Open Approach	PX	ICD-10-PCS
0CNF3ZZ	Release Left Sublingual Gland, Percutaneous Approach	PX	ICD-10-PCS
0CNG0ZZ	Release Right Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0CNG3ZZ	Release Right Submaxillary Gland, Percutaneous Approach	PX	ICD-10-PCS
0CNH0ZZ	Release Left Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0CNH3ZZ	Release Left Submaxillary Gland, Percutaneous Approach	PX	ICD-10-PCS
0CNJ0ZZ	Release Minor Salivary Gland, Open Approach	PX	ICD-10-PCS
0CNJ3ZZ	Release Minor Salivary Gland, Percutaneous Approach	PX	ICD-10-PCS
0CNM0ZZ	Release Pharynx, Open Approach	PX	ICD-10-PCS
0CNM3ZZ	Release Pharynx, Percutaneous Approach	PX	ICD-10-PCS
0CNM4ZZ	Release Pharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CNM7ZZ	Release Pharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CNM8ZZ	Release Pharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CNN0ZZ	Release Uvula, Open Approach	PX	ICD-10-PCS
0CNN3ZZ	Release Uvula, Percutaneous Approach	PX	ICD-10-PCS
0CNNXZZ	Release Uvula, External Approach	PX	ICD-10-PCS
0CNP0ZZ	Release Tonsils, Open Approach	PX	ICD-10-PCS
0CNP3ZZ	Release Tonsils, Percutaneous Approach	PX	ICD-10-PCS
0CNPXZZ	Release Tonsils, External Approach	PX	ICD-10-PCS
0CNQ0ZZ	Release Adenoids, Open Approach	PX	ICD-10-PCS
0CNQ3ZZ	Release Adenoids, Percutaneous Approach	PX	ICD-10-PCS
0CNQXZZ	Release Adenoids, External Approach	PX	ICD-10-PCS
0CNR0ZZ	Release Epiglottis, Open Approach	PX	ICD-10-PCS
0CNR3ZZ	Release Epiglottis, Percutaneous Approach	PX	ICD-10-PCS
0CNR4ZZ	Release Epiglottis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CNR7ZZ	Release Epiglottis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CNR8ZZ	Release Epiglottis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CNS0ZZ	Release Larynx, Open Approach	PX	ICD-10-PCS
0CNS3ZZ	Release Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CNS4ZZ	Release Larynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CNS7ZZ	Release Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CNS8ZZ	Release Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CNT0ZZ	Release Right Vocal Cord, Open Approach	PX	ICD-10-PCS
0CNT3ZZ	Release Right Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0CNT4ZZ	Release Right Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CNT7ZZ	Release Right Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CNT8ZZ	Release Right Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CNV0ZZ	Release Left Vocal Cord, Open Approach	PX	ICD-10-PCS
0CNV3ZZ	Release Left Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0CNV4ZZ	Release Left Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CNV7ZZ	Release Left Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CNV8ZZ	Release Left Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CPS00Z	Removal of Drainage Device from Larynx, Open Approach	PX	ICD-10-PCS
0CPS07Z	Removal of Autologous Tissue Substitute from Larynx, Open Approach	PX	ICD-10-PCS
0CPS0DZ	Removal of Intraluminal Device from Larynx, Open Approach	PX	ICD-10-PCS
0CPS0JZ	Removal of Synthetic Substitute from Larynx, Open Approach	PX	ICD-10-PCS
0CPS0KZ	Removal of Nonautologous Tissue Substitute from Larynx, Open Approach	PX	ICD-10-PCS
0CPS0YZ	Removal of Other Device from Larynx, Open Approach	PX	ICD-10-PCS
0CPS30Z	Removal of Drainage Device from Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CPS37Z	Removal of Autologous Tissue Substitute from Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CPS3DZ	Removal of Intraluminal Device from Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CPS3JZ	Removal of Synthetic Substitute from Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CPS3KZ	Removal of Nonautologous Tissue Substitute from Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CPS3YZ	Removal of Other Device from Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CPS77Z	Removal of Autologous Tissue Substitute from Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CPS7JZ	Removal of Synthetic Substitute from Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CPS7KZ	Removal of Nonautologous Tissue Substitute from Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CPS87Z	Removal of Autologous Tissue Substitute from Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CPS8JZ	Removal of Synthetic Substitute from Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CPS8KZ	Removal of Nonautologous Tissue Substitute from Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CPY00Z	Removal of Drainage Device from Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CPY01Z	Removal of Radioactive Element from Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CPY07Z	Removal of Autologous Tissue Substitute from Mouth and Throat, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CPY0DZ	Removal of Intraluminal Device from Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CPY0JZ	Removal of Synthetic Substitute from Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CPY0KZ	Removal of Nonautologous Tissue Substitute from Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CPY0YZ	Removal of Other Device from Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CPY30Z	Removal of Drainage Device from Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CPY37Z	Removal of Autologous Tissue Substitute from Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CPY3DZ	Removal of Intraluminal Device from Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CPY3JZ	Removal of Synthetic Substitute from Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CPY3KZ	Removal of Nonautologous Tissue Substitute from Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CPY3YZ	Removal of Other Device from Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CPY77Z	Removal of Autologous Tissue Substitute from Mouth and Throat, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CPY7JZ	Removal of Synthetic Substitute from Mouth and Throat, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CPY7KZ	Removal of Nonautologous Tissue Substitute from Mouth and Throat, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CPY87Z	Removal of Autologous Tissue Substitute from Mouth and Throat, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CPY8JZ	Removal of Synthetic Substitute from Mouth and Throat, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CPY8KZ	Removal of Nonautologous Tissue Substitute from Mouth and Throat, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CQ00ZZ	Repair Upper Lip, Open Approach	PX	ICD-10-PCS
0CQ03ZZ	Repair Upper Lip, Percutaneous Approach	PX	ICD-10-PCS
0CQ10ZZ	Repair Lower Lip, Open Approach	PX	ICD-10-PCS
0CQ13ZZ	Repair Lower Lip, Percutaneous Approach	PX	ICD-10-PCS
0CQ20ZZ	Repair Hard Palate, Open Approach	PX	ICD-10-PCS
0CQ23ZZ	Repair Hard Palate, Percutaneous Approach	PX	ICD-10-PCS
0CQ2XZZ	Repair Hard Palate, External Approach	PX	ICD-10-PCS
0CQ30ZZ	Repair Soft Palate, Open Approach	PX	ICD-10-PCS
0CQ33ZZ	Repair Soft Palate, Percutaneous Approach	PX	ICD-10-PCS
0CQ3XZZ	Repair Soft Palate, External Approach	PX	ICD-10-PCS
0CQ40ZZ	Repair Buccal Mucosa, Open Approach	PX	ICD-10-PCS
0CQ43ZZ	Repair Buccal Mucosa, Percutaneous Approach	PX	ICD-10-PCS
0CQ70ZZ	Repair Tongue, Open Approach	PX	ICD-10-PCS
0CQ73ZZ	Repair Tongue, Percutaneous Approach	PX	ICD-10-PCS
0CQ80ZZ	Repair Right Parotid Gland, Open Approach	PX	ICD-10-PCS
0CQ83ZZ	Repair Right Parotid Gland, Percutaneous Approach	PX	ICD-10-PCS
0CQ90ZZ	Repair Left Parotid Gland, Open Approach	PX	ICD-10-PCS
0CQ93ZZ	Repair Left Parotid Gland, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CQB0ZZ	Repair Right Parotid Duct, Open Approach	PX	ICD-10-PCS
0CQB3ZZ	Repair Right Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CQC0ZZ	Repair Left Parotid Duct, Open Approach	PX	ICD-10-PCS
0CQC3ZZ	Repair Left Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CQD0ZZ	Repair Right Sublingual Gland, Open Approach	PX	ICD-10-PCS
0CQD3ZZ	Repair Right Sublingual Gland, Percutaneous Approach	PX	ICD-10-PCS
0CQF0ZZ	Repair Left Sublingual Gland, Open Approach	PX	ICD-10-PCS
0CQF3ZZ	Repair Left Sublingual Gland, Percutaneous Approach	PX	ICD-10-PCS
0CQG0ZZ	Repair Right Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0CQG3ZZ	Repair Right Submaxillary Gland, Percutaneous Approach	PX	ICD-10-PCS
0CQH0ZZ	Repair Left Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0CQH3ZZ	Repair Left Submaxillary Gland, Percutaneous Approach	PX	ICD-10-PCS
0CQJ0ZZ	Repair Minor Salivary Gland, Open Approach	PX	ICD-10-PCS
0CQJ3ZZ	Repair Minor Salivary Gland, Percutaneous Approach	PX	ICD-10-PCS
0CQM0ZZ	Repair Pharynx, Open Approach	PX	ICD-10-PCS
0CQM3ZZ	Repair Pharynx, Percutaneous Approach	PX	ICD-10-PCS
0CQM4ZZ	Repair Pharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CQM7ZZ	Repair Pharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CQM8ZZ	Repair Pharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CQN0ZZ	Repair Uvula, Open Approach	PX	ICD-10-PCS
0CQN3ZZ	Repair Uvula, Percutaneous Approach	PX	ICD-10-PCS
0CQNXZZ	Repair Uvula, External Approach	PX	ICD-10-PCS
0CQP0ZZ	Repair Tonsils, Open Approach	PX	ICD-10-PCS
0CQP3ZZ	Repair Tonsils, Percutaneous Approach	PX	ICD-10-PCS
0CQPXZZ	Repair Tonsils, External Approach	PX	ICD-10-PCS
0CQQ0ZZ	Repair Adenoids, Open Approach	PX	ICD-10-PCS
0CQQ3ZZ	Repair Adenoids, Percutaneous Approach	PX	ICD-10-PCS
0CQQXZZ	Repair Adenoids, External Approach	PX	ICD-10-PCS
0CQR0ZZ	Repair Epiglottis, Open Approach	PX	ICD-10-PCS
0CQR3ZZ	Repair Epiglottis, Percutaneous Approach	PX	ICD-10-PCS
0CQR4ZZ	Repair Epiglottis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CQR7ZZ	Repair Epiglottis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CQR8ZZ	Repair Epiglottis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CQS0ZZ	Repair Larynx, Open Approach	PX	ICD-10-PCS
0CQS3ZZ	Repair Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CQS4ZZ	Repair Larynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CQS7ZZ	Repair Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CQS8ZZ	Repair Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CQT0ZZ	Repair Right Vocal Cord, Open Approach	PX	ICD-10-PCS
0CQT3ZZ	Repair Right Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS
0CQT4ZZ	Repair Right Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CQT7ZZ	Repair Right Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CQT8ZZ	Repair Right Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CQV0ZZ	Repair Left Vocal Cord, Open Approach	PX	ICD-10-PCS
0CQV3ZZ	Repair Left Vocal Cord, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CQV4ZZ	Repair Left Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CQV7ZZ	Repair Left Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CQV8ZZ	Repair Left Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CR007Z	Replacement of Upper Lip with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR00JZ	Replacement of Upper Lip with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CR00KZ	Replacement of Upper Lip with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR037Z	Replacement of Upper Lip with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR03JZ	Replacement of Upper Lip with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR03KZ	Replacement of Upper Lip with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR0X7Z	Replacement of Upper Lip with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR0XJZ	Replacement of Upper Lip with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CR0XKZ	Replacement of Upper Lip with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR107Z	Replacement of Lower Lip with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR10JZ	Replacement of Lower Lip with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CR10KZ	Replacement of Lower Lip with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR137Z	Replacement of Lower Lip with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR13JZ	Replacement of Lower Lip with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR13KZ	Replacement of Lower Lip with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR1X7Z	Replacement of Lower Lip with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR1XJZ	Replacement of Lower Lip with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CR1XKZ	Replacement of Lower Lip with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR207Z	Replacement of Hard Palate with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR20JZ	Replacement of Hard Palate with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CR20KZ	Replacement of Hard Palate with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR237Z	Replacement of Hard Palate with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR23JZ	Replacement of Hard Palate with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR23KZ	Replacement of Hard Palate with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR2X7Z	Replacement of Hard Palate with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR2XJZ	Replacement of Hard Palate with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CR2XKZ	Replacement of Hard Palate with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR307Z	Replacement of Soft Palate with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CR30JZ	Replacement of Soft Palate with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CR30KZ	Replacement of Soft Palate with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR337Z	Replacement of Soft Palate with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR33JZ	Replacement of Soft Palate with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR33KZ	Replacement of Soft Palate with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR3X7Z	Replacement of Soft Palate with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR3XJZ	Replacement of Soft Palate with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CR3XKZ	Replacement of Soft Palate with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR407Z	Replacement of Buccal Mucosa with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR40JZ	Replacement of Buccal Mucosa with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CR40KZ	Replacement of Buccal Mucosa with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR437Z	Replacement of Buccal Mucosa with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR43JZ	Replacement of Buccal Mucosa with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR43KZ	Replacement of Buccal Mucosa with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR4X7Z	Replacement of Buccal Mucosa with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR4XJZ	Replacement of Buccal Mucosa with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CR4XKZ	Replacement of Buccal Mucosa with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR507Z	Replacement of Upper Gingiva with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR50JZ	Replacement of Upper Gingiva with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CR50KZ	Replacement of Upper Gingiva with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR537Z	Replacement of Upper Gingiva with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR53JZ	Replacement of Upper Gingiva with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR53KZ	Replacement of Upper Gingiva with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR5X7Z	Replacement of Upper Gingiva with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR5XJZ	Replacement of Upper Gingiva with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CR5XKZ	Replacement of Upper Gingiva with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CR607Z	Replacement of Lower Gingiva with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR60JZ	Replacement of Lower Gingiva with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CR60KZ	Replacement of Lower Gingiva with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR637Z	Replacement of Lower Gingiva with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR63JZ	Replacement of Lower Gingiva with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR63KZ	Replacement of Lower Gingiva with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR6X7Z	Replacement of Lower Gingiva with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR6XJZ	Replacement of Lower Gingiva with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CR6XKZ	Replacement of Lower Gingiva with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR707Z	Replacement of Tongue with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR70JZ	Replacement of Tongue with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CR70KZ	Replacement of Tongue with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CR737Z	Replacement of Tongue with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR73JZ	Replacement of Tongue with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR73KZ	Replacement of Tongue with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CR7X7Z	Replacement of Tongue with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CR7XJZ	Replacement of Tongue with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CR7XKZ	Replacement of Tongue with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CRB07Z	Replacement of Right Parotid Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRB0JZ	Replacement of Right Parotid Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CRB0KZ	Replacement of Right Parotid Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRB37Z	Replacement of Right Parotid Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CRB3JZ	Replacement of Right Parotid Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CRB3KZ	Replacement of Right Parotid Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CRC07Z	Replacement of Left Parotid Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRC0JZ	Replacement of Left Parotid Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CRC0KZ	Replacement of Left Parotid Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CRC37Z	Replacement of Left Parotid Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CRC3JZ	Replacement of Left Parotid Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CRC3KZ	Replacement of Left Parotid Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CRM07Z	Replacement of Pharynx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRM0JZ	Replacement of Pharynx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CRM0KZ	Replacement of Pharynx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRM77Z	Replacement of Pharynx with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRM7JZ	Replacement of Pharynx with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRM7KZ	Replacement of Pharynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRM87Z	Replacement of Pharynx with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRM8JZ	Replacement of Pharynx with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRM8KZ	Replacement of Pharynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRN07Z	Replacement of Uvula with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRN0JZ	Replacement of Uvula with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CRN0KZ	Replacement of Uvula with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRN37Z	Replacement of Uvula with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CRN3JZ	Replacement of Uvula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CRN3KZ	Replacement of Uvula with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CRNX7Z	Replacement of Uvula with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CRNXJZ	Replacement of Uvula with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CRNXKZ	Replacement of Uvula with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CRR07Z	Replacement of Epiglottis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRR0JZ	Replacement of Epiglottis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CRR0KZ	Replacement of Epiglottis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRR77Z	Replacement of Epiglottis with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRR7JZ	Replacement of Epiglottis with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRR7KZ	Replacement of Epiglottis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRR87Z	Replacement of Epiglottis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CRR8JZ	Replacement of Epiglottis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRR8KZ	Replacement of Epiglottis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRS07Z	Replacement of Larynx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRS0JZ	Replacement of Larynx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CRS0KZ	Replacement of Larynx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRS77Z	Replacement of Larynx with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRS7JZ	Replacement of Larynx with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRS7KZ	Replacement of Larynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRS87Z	Replacement of Larynx with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRS8JZ	Replacement of Larynx with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRS8KZ	Replacement of Larynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRT07Z	Replacement of Right Vocal Cord with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRT0JZ	Replacement of Right Vocal Cord with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CRT0KZ	Replacement of Right Vocal Cord with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRT77Z	Replacement of Right Vocal Cord with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRT7JZ	Replacement of Right Vocal Cord with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRT7KZ	Replacement of Right Vocal Cord with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRT87Z	Replacement of Right Vocal Cord with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRT8JZ	Replacement of Right Vocal Cord with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRT8KZ	Replacement of Right Vocal Cord with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRV07Z	Replacement of Left Vocal Cord with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRV0JZ	Replacement of Left Vocal Cord with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CRV0KZ	Replacement of Left Vocal Cord with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CRV77Z	Replacement of Left Vocal Cord with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRV7JZ	Replacement of Left Vocal Cord with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CRV7KZ	Replacement of Left Vocal Cord with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CRV87Z	Replacement of Left Vocal Cord with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRV8JZ	Replacement of Left Vocal Cord with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CRV8KZ	Replacement of Left Vocal Cord with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CS00ZZ	Reposition Upper Lip, Open Approach	PX	ICD-10-PCS
0CS0XZZ	Reposition Upper Lip, External Approach	PX	ICD-10-PCS
0CS10ZZ	Reposition Lower Lip, Open Approach	PX	ICD-10-PCS
0CS1XZZ	Reposition Lower Lip, External Approach	PX	ICD-10-PCS
0CS20ZZ	Reposition Hard Palate, Open Approach	PX	ICD-10-PCS
0CS2XZZ	Reposition Hard Palate, External Approach	PX	ICD-10-PCS
0CS30ZZ	Reposition Soft Palate, Open Approach	PX	ICD-10-PCS
0CS3XZZ	Reposition Soft Palate, External Approach	PX	ICD-10-PCS
0CS70ZZ	Reposition Tongue, Open Approach	PX	ICD-10-PCS
0CS7XZZ	Reposition Tongue, External Approach	PX	ICD-10-PCS
0CSB0ZZ	Reposition Right Parotid Duct, Open Approach	PX	ICD-10-PCS
0CSB3ZZ	Reposition Right Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CSC0ZZ	Reposition Left Parotid Duct, Open Approach	PX	ICD-10-PCS
0CSC3ZZ	Reposition Left Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CSN0ZZ	Reposition Uvula, Open Approach	PX	ICD-10-PCS
0CSNXZZ	Reposition Uvula, External Approach	PX	ICD-10-PCS
0CSR0ZZ	Reposition Epiglottis, Open Approach	PX	ICD-10-PCS
0CSR7ZZ	Reposition Epiglottis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CSR8ZZ	Reposition Epiglottis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CSS0ZZ	Reposition Larynx, Open Approach	PX	ICD-10-PCS
0CSS7ZZ	Reposition Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CSS8ZZ	Reposition Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CST0ZZ	Reposition Right Vocal Cord, Open Approach	PX	ICD-10-PCS
0CST7ZZ	Reposition Right Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CST8ZZ	Reposition Right Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CSV0ZZ	Reposition Left Vocal Cord, Open Approach	PX	ICD-10-PCS
0CSV7ZZ	Reposition Left Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CSV8ZZ	Reposition Left Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CT00ZZ	Resection of Upper Lip, Open Approach	PX	ICD-10-PCS
0CT0XZZ	Resection of Upper Lip, External Approach	PX	ICD-10-PCS
0CT10ZZ	Resection of Lower Lip, Open Approach	PX	ICD-10-PCS
0CT1XZZ	Resection of Lower Lip, External Approach	PX	ICD-10-PCS
0CT20ZZ	Resection of Hard Palate, Open Approach	PX	ICD-10-PCS
0CT2XZZ	Resection of Hard Palate, External Approach	PX	ICD-10-PCS
0CT30ZZ	Resection of Soft Palate, Open Approach	PX	ICD-10-PCS
0CT3XZZ	Resection of Soft Palate, External Approach	PX	ICD-10-PCS
0CT70ZZ	Resection of Tongue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CT7XZZ	Resection of Tongue, External Approach	PX	ICD-10-PCS
0CT80ZZ	Resection of Right Parotid Gland, Open Approach	PX	ICD-10-PCS
0CT90ZZ	Resection of Left Parotid Gland, Open Approach	PX	ICD-10-PCS
0CTB0ZZ	Resection of Right Parotid Duct, Open Approach	PX	ICD-10-PCS
0CTC0ZZ	Resection of Left Parotid Duct, Open Approach	PX	ICD-10-PCS
0CTD0ZZ	Resection of Right Sublingual Gland, Open Approach	PX	ICD-10-PCS
0CTF0ZZ	Resection of Left Sublingual Gland, Open Approach	PX	ICD-10-PCS
0CTG0ZZ	Resection of Right Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0CTH0ZZ	Resection of Left Submaxillary Gland, Open Approach	PX	ICD-10-PCS
0CTJ0ZZ	Resection of Minor Salivary Gland, Open Approach	PX	ICD-10-PCS
0CTM0ZZ	Resection of Pharynx, Open Approach	PX	ICD-10-PCS
0CTM4ZZ	Resection of Pharynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CTM7ZZ	Resection of Pharynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CTM8ZZ	Resection of Pharynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CTN0ZZ	Resection of Uvula, Open Approach	PX	ICD-10-PCS
0CTNXZZ	Resection of Uvula, External Approach	PX	ICD-10-PCS
0CTP0ZZ	Resection of Tonsils, Open Approach	PX	ICD-10-PCS
0CTPXZZ	Resection of Tonsils, External Approach	PX	ICD-10-PCS
0CTQ0ZZ	Resection of Adenoids, Open Approach	PX	ICD-10-PCS
0CTQXZZ	Resection of Adenoids, External Approach	PX	ICD-10-PCS
0CTR0ZZ	Resection of Epiglottis, Open Approach	PX	ICD-10-PCS
0CTR4ZZ	Resection of Epiglottis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CTR7ZZ	Resection of Epiglottis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CTR8ZZ	Resection of Epiglottis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CTS0ZZ	Resection of Larynx, Open Approach	PX	ICD-10-PCS
0CTS4ZZ	Resection of Larynx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CTS7ZZ	Resection of Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CTS8ZZ	Resection of Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CTT0ZZ	Resection of Right Vocal Cord, Open Approach	PX	ICD-10-PCS
0CTT4ZZ	Resection of Right Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CTT7ZZ	Resection of Right Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CTT8ZZ	Resection of Right Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CTV0ZZ	Resection of Left Vocal Cord, Open Approach	PX	ICD-10-PCS
0CTV4ZZ	Resection of Left Vocal Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0CTV7ZZ	Resection of Left Vocal Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CTV8ZZ	Resection of Left Vocal Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CU007Z	Supplement Upper Lip with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU00JZ	Supplement Upper Lip with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CU00KZ	Supplement Upper Lip with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU037Z	Supplement Upper Lip with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU03JZ	Supplement Upper Lip with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU03KZ	Supplement Upper Lip with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU0X7Z	Supplement Upper Lip with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CU0XJZ	Supplement Upper Lip with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CU0XKZ	Supplement Upper Lip with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU107Z	Supplement Lower Lip with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU10JZ	Supplement Lower Lip with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CU10KZ	Supplement Lower Lip with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU137Z	Supplement Lower Lip with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU13JZ	Supplement Lower Lip with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU13KZ	Supplement Lower Lip with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU1X7Z	Supplement Lower Lip with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU1XJZ	Supplement Lower Lip with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CU1XKZ	Supplement Lower Lip with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU207Z	Supplement Hard Palate with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU20KZ	Supplement Hard Palate with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU237Z	Supplement Hard Palate with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU23KZ	Supplement Hard Palate with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU2X7Z	Supplement Hard Palate with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU2XJZ	Supplement Hard Palate with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CU2XKZ	Supplement Hard Palate with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU307Z	Supplement Soft Palate with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU30JZ	Supplement Soft Palate with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CU30KZ	Supplement Soft Palate with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU337Z	Supplement Soft Palate with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU33JZ	Supplement Soft Palate with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU33KZ	Supplement Soft Palate with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU3X7Z	Supplement Soft Palate with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU3XJZ	Supplement Soft Palate with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CU3XKZ	Supplement Soft Palate with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU407Z	Supplement Buccal Mucosa with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU40JZ	Supplement Buccal Mucosa with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CU40KZ	Supplement Buccal Mucosa with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU437Z	Supplement Buccal Mucosa with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU43JZ	Supplement Buccal Mucosa with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CU43KZ	Supplement Buccal Mucosa with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU4X7Z	Supplement Buccal Mucosa with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU4XJZ	Supplement Buccal Mucosa with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CU4XKZ	Supplement Buccal Mucosa with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU507Z	Supplement Upper Gingiva with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU50JZ	Supplement Upper Gingiva with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CU50KZ	Supplement Upper Gingiva with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU537Z	Supplement Upper Gingiva with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU53JZ	Supplement Upper Gingiva with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU53KZ	Supplement Upper Gingiva with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU5X7Z	Supplement Upper Gingiva with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU5XJZ	Supplement Upper Gingiva with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CU5XKZ	Supplement Upper Gingiva with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU607Z	Supplement Lower Gingiva with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU60JZ	Supplement Lower Gingiva with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CU60KZ	Supplement Lower Gingiva with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU637Z	Supplement Lower Gingiva with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU63JZ	Supplement Lower Gingiva with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU63KZ	Supplement Lower Gingiva with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU6X7Z	Supplement Lower Gingiva with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU6XJZ	Supplement Lower Gingiva with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CU6XKZ	Supplement Lower Gingiva with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU707Z	Supplement Tongue with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU70JZ	Supplement Tongue with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CU70KZ	Supplement Tongue with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CU737Z	Supplement Tongue with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU73JZ	Supplement Tongue with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU73KZ	Supplement Tongue with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CU7X7Z	Supplement Tongue with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CU7XJZ	Supplement Tongue with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CU7XKZ	Supplement Tongue with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CUM07Z	Supplement Pharynx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUM0JZ	Supplement Pharynx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CUM0KZ	Supplement Pharynx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUM77Z	Supplement Pharynx with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUM7JZ	Supplement Pharynx with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUM7KZ	Supplement Pharynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUM87Z	Supplement Pharynx with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUM8JZ	Supplement Pharynx with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUM8KZ	Supplement Pharynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUN07Z	Supplement Uvula with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUN0JZ	Supplement Uvula with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CUN0KZ	Supplement Uvula with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUN37Z	Supplement Uvula with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CUN3JZ	Supplement Uvula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CUN3KZ	Supplement Uvula with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0CUNX7Z	Supplement Uvula with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CUNXJZ	Supplement Uvula with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0CUNXKZ	Supplement Uvula with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0CUR07Z	Supplement Epiglottis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUR0JZ	Supplement Epiglottis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CUR0KZ	Supplement Epiglottis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUR77Z	Supplement Epiglottis with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUR7JZ	Supplement Epiglottis with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUR7KZ	Supplement Epiglottis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUR87Z	Supplement Epiglottis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUR8JZ	Supplement Epiglottis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUR8KZ	Supplement Epiglottis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUS07Z	Supplement Larynx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUS0JZ	Supplement Larynx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CUS0KZ	Supplement Larynx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUS77Z	Supplement Larynx with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUS7JZ	Supplement Larynx with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CUS7KZ	Supplement Larynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUS87Z	Supplement Larynx with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUS8JZ	Supplement Larynx with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUS8KZ	Supplement Larynx with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUT07Z	Supplement Right Vocal Cord with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUT0JZ	Supplement Right Vocal Cord with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CUT0KZ	Supplement Right Vocal Cord with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUT77Z	Supplement Right Vocal Cord with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUT7JZ	Supplement Right Vocal Cord with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUT7KZ	Supplement Right Vocal Cord with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUT87Z	Supplement Right Vocal Cord with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUT8JZ	Supplement Right Vocal Cord with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUT8KZ	Supplement Right Vocal Cord with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUV07Z	Supplement Left Vocal Cord with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUV0JZ	Supplement Left Vocal Cord with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0CUV0KZ	Supplement Left Vocal Cord with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0CUV77Z	Supplement Left Vocal Cord with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUV7JZ	Supplement Left Vocal Cord with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUV7KZ	Supplement Left Vocal Cord with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CUV87Z	Supplement Left Vocal Cord with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUV8JZ	Supplement Left Vocal Cord with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CUV8KZ	Supplement Left Vocal Cord with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CVB0CZ	Restriction of Right Parotid Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0CVB0DZ	Restriction of Right Parotid Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0CVB0ZZ	Restriction of Right Parotid Duct, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CVB3CZ	Restriction of Right Parotid Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0CVB3DZ	Restriction of Right Parotid Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0CVB3ZZ	Restriction of Right Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CVB7DZ	Restriction of Right Parotid Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CVB7ZZ	Restriction of Right Parotid Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CVB8DZ	Restriction of Right Parotid Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CVB8ZZ	Restriction of Right Parotid Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CVC0CZ	Restriction of Left Parotid Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0CVC0DZ	Restriction of Left Parotid Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0CVC0ZZ	Restriction of Left Parotid Duct, Open Approach	PX	ICD-10-PCS
0CVC3CZ	Restriction of Left Parotid Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0CVC3DZ	Restriction of Left Parotid Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0CVC3ZZ	Restriction of Left Parotid Duct, Percutaneous Approach	PX	ICD-10-PCS
0CVC7DZ	Restriction of Left Parotid Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CVC7ZZ	Restriction of Left Parotid Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CVC8DZ	Restriction of Left Parotid Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CVC8ZZ	Restriction of Left Parotid Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CWS00Z	Revision of Drainage Device in Larynx, Open Approach	PX	ICD-10-PCS
0CWS07Z	Revision of Autologous Tissue Substitute in Larynx, Open Approach	PX	ICD-10-PCS
0CWS0DZ	Revision of Intraluminal Device in Larynx, Open Approach	PX	ICD-10-PCS
0CWS0JZ	Revision of Synthetic Substitute in Larynx, Open Approach	PX	ICD-10-PCS
0CWS0KZ	Revision of Nonautologous Tissue Substitute in Larynx, Open Approach	PX	ICD-10-PCS
0CWS0YZ	Revision of Other Device in Larynx, Open Approach	PX	ICD-10-PCS
0CWS30Z	Revision of Drainage Device in Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CWS37Z	Revision of Autologous Tissue Substitute in Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CWS3DZ	Revision of Intraluminal Device in Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CWS3JZ	Revision of Synthetic Substitute in Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CWS3KZ	Revision of Nonautologous Tissue Substitute in Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CWS3YZ	Revision of Other Device in Larynx, Percutaneous Approach	PX	ICD-10-PCS
0CWS70Z	Revision of Drainage Device in Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CWS77Z	Revision of Autologous Tissue Substitute in Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CWS7DZ	Revision of Intraluminal Device in Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CWS7JZ	Revision of Synthetic Substitute in Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CWS7KZ	Revision of Nonautologous Tissue Substitute in Larynx, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CWS80Z	Revision of Drainage Device in Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CWS87Z	Revision of Autologous Tissue Substitute in Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CWS8DZ	Revision of Intraluminal Device in Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CWS8JZ	Revision of Synthetic Substitute in Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CWS8KZ	Revision of Nonautologous Tissue Substitute in Larynx, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CWY00Z	Revision of Drainage Device in Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CWY01Z	Revision of Radioactive Element in Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CWY0DZ	Revision of Intraluminal Device in Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CWY0JZ	Revision of Synthetic Substitute in Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CWY0KZ	Revision of Nonautologous Tissue Substitute in Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CWY0YZ	Revision of Other Device in Mouth and Throat, Open Approach	PX	ICD-10-PCS
0CWY30Z	Revision of Drainage Device in Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CWY37Z	Revision of Autologous Tissue Substitute in Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CWY3DZ	Revision of Intraluminal Device in Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CWY3JZ	Revision of Synthetic Substitute in Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CWY3KZ	Revision of Nonautologous Tissue Substitute in Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CWY3YZ	Revision of Other Device in Mouth and Throat, Percutaneous Approach	PX	ICD-10-PCS
0CWY70Z	Revision of Drainage Device in Mouth and Throat, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CWY77Z	Revision of Autologous Tissue Substitute in Mouth and Throat, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CWY7DZ	Revision of Intraluminal Device in Mouth and Throat, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CWY7JZ	Revision of Synthetic Substitute in Mouth and Throat, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CWY7KZ	Revision of Nonautologous Tissue Substitute in Mouth and Throat, Via Natural or Artificial Opening	PX	ICD-10-PCS
0CWY80Z	Revision of Drainage Device in Mouth and Throat, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CWY87Z	Revision of Autologous Tissue Substitute in Mouth and Throat, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CWY8DZ	Revision of Intraluminal Device in Mouth and Throat, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CWY8JZ	Revision of Synthetic Substitute in Mouth and Throat, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0CWY8KZ	Revision of Nonautologous Tissue Substitute in Mouth and Throat, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0CX00ZZ	Transfer Upper Lip, Open Approach	PX	ICD-10-PCS
0CX0XZZ	Transfer Upper Lip, External Approach	PX	ICD-10-PCS
0CX10ZZ	Transfer Lower Lip, Open Approach	PX	ICD-10-PCS
0CX1XZZ	Transfer Lower Lip, External Approach	PX	ICD-10-PCS
0CX30ZZ	Transfer Soft Palate, Open Approach	PX	ICD-10-PCS
0CX3XZZ	Transfer Soft Palate, External Approach	PX	ICD-10-PCS
0CX40ZZ	Transfer Buccal Mucosa, Open Approach	PX	ICD-10-PCS
0CX4XZZ	Transfer Buccal Mucosa, External Approach	PX	ICD-10-PCS
0CX50ZZ	Transfer Upper Gingiva, Open Approach	PX	ICD-10-PCS
0CX60ZZ	Transfer Lower Gingiva, Open Approach	PX	ICD-10-PCS
0CX70ZZ	Transfer Tongue, Open Approach	PX	ICD-10-PCS
0CX7XZZ	Transfer Tongue, External Approach	PX	ICD-10-PCS
0D11074	Bypass Upper Esophagus to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D11076	Bypass Upper Esophagus to Stomach with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D11079	Bypass Upper Esophagus to Duodenum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1107A	Bypass Upper Esophagus to Jejunum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1107B	Bypass Upper Esophagus to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D110J4	Bypass Upper Esophagus to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D110J6	Bypass Upper Esophagus to Stomach with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D110J9	Bypass Upper Esophagus to Duodenum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D110JA	Bypass Upper Esophagus to Jejunum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D110JB	Bypass Upper Esophagus to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D110K4	Bypass Upper Esophagus to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D110K6	Bypass Upper Esophagus to Stomach with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D110K9	Bypass Upper Esophagus to Duodenum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D110KA	Bypass Upper Esophagus to Jejunum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D110KB	Bypass Upper Esophagus to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D110Z4	Bypass Upper Esophagus to Cutaneous, Open Approach	PX	ICD-10-PCS
0D110Z6	Bypass Upper Esophagus to Stomach, Open Approach	PX	ICD-10-PCS
0D110Z9	Bypass Upper Esophagus to Duodenum, Open Approach	PX	ICD-10-PCS
0D110ZA	Bypass Upper Esophagus to Jejunum, Open Approach	PX	ICD-10-PCS
0D110ZB	Bypass Upper Esophagus to Ileum, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D113J4	Bypass Upper Esophagus to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D11474	Bypass Upper Esophagus to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D11476	Bypass Upper Esophagus to Stomach with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D11479	Bypass Upper Esophagus to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1147A	Bypass Upper Esophagus to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1147B	Bypass Upper Esophagus to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114J4	Bypass Upper Esophagus to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114J6	Bypass Upper Esophagus to Stomach with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114J9	Bypass Upper Esophagus to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114JA	Bypass Upper Esophagus to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114JB	Bypass Upper Esophagus to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114K4	Bypass Upper Esophagus to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114K6	Bypass Upper Esophagus to Stomach with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114K9	Bypass Upper Esophagus to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114KA	Bypass Upper Esophagus to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114KB	Bypass Upper Esophagus to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114Z4	Bypass Upper Esophagus to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114Z6	Bypass Upper Esophagus to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114Z9	Bypass Upper Esophagus to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114ZA	Bypass Upper Esophagus to Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D114ZB	Bypass Upper Esophagus to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D11874	Bypass Upper Esophagus to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D11876	Bypass Upper Esophagus to Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D11879	Bypass Upper Esophagus to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1187A	Bypass Upper Esophagus to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1187B	Bypass Upper Esophagus to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118J4	Bypass Upper Esophagus to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118J6	Bypass Upper Esophagus to Stomach with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118J9	Bypass Upper Esophagus to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118JA	Bypass Upper Esophagus to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118JB	Bypass Upper Esophagus to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118K4	Bypass Upper Esophagus to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118K6	Bypass Upper Esophagus to Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118K9	Bypass Upper Esophagus to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118KA	Bypass Upper Esophagus to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118KB	Bypass Upper Esophagus to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118Z4	Bypass Upper Esophagus to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118Z6	Bypass Upper Esophagus to Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118Z9	Bypass Upper Esophagus to Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118ZA	Bypass Upper Esophagus to Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D118ZB	Bypass Upper Esophagus to Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D12074	Bypass Middle Esophagus to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D12076	Bypass Middle Esophagus to Stomach with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D12079	Bypass Middle Esophagus to Duodenum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1207A	Bypass Middle Esophagus to Jejunum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1207B	Bypass Middle Esophagus to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D120J4	Bypass Middle Esophagus to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D120J6	Bypass Middle Esophagus to Stomach with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D120J9	Bypass Middle Esophagus to Duodenum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D120JA	Bypass Middle Esophagus to Jejunum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D120JB	Bypass Middle Esophagus to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D120K4	Bypass Middle Esophagus to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D120K6	Bypass Middle Esophagus to Stomach with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D120K9	Bypass Middle Esophagus to Duodenum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D120KA	Bypass Middle Esophagus to Jejunum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D120KB	Bypass Middle Esophagus to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D120Z4	Bypass Middle Esophagus to Cutaneous, Open Approach	PX	ICD-10-PCS
0D120Z6	Bypass Middle Esophagus to Stomach, Open Approach	PX	ICD-10-PCS
0D120Z9	Bypass Middle Esophagus to Duodenum, Open Approach	PX	ICD-10-PCS
0D120ZA	Bypass Middle Esophagus to Jejunum, Open Approach	PX	ICD-10-PCS
0D120ZB	Bypass Middle Esophagus to Ileum, Open Approach	PX	ICD-10-PCS
0D123J4	Bypass Middle Esophagus to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D12474	Bypass Middle Esophagus to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D12476	Bypass Middle Esophagus to Stomach with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D12479	Bypass Middle Esophagus to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1247A	Bypass Middle Esophagus to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1247B	Bypass Middle Esophagus to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124J4	Bypass Middle Esophagus to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124J6	Bypass Middle Esophagus to Stomach with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124J9	Bypass Middle Esophagus to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124JA	Bypass Middle Esophagus to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124JB	Bypass Middle Esophagus to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124K4	Bypass Middle Esophagus to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124K6	Bypass Middle Esophagus to Stomach with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D124K9	Bypass Middle Esophagus to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124KA	Bypass Middle Esophagus to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124KB	Bypass Middle Esophagus to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124Z4	Bypass Middle Esophagus to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124Z6	Bypass Middle Esophagus to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124Z9	Bypass Middle Esophagus to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124ZA	Bypass Middle Esophagus to Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D124ZB	Bypass Middle Esophagus to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D12874	Bypass Middle Esophagus to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D12876	Bypass Middle Esophagus to Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D12879	Bypass Middle Esophagus to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1287A	Bypass Middle Esophagus to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1287B	Bypass Middle Esophagus to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128J4	Bypass Middle Esophagus to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128J6	Bypass Middle Esophagus to Stomach with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128J9	Bypass Middle Esophagus to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128JA	Bypass Middle Esophagus to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128JB	Bypass Middle Esophagus to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128K4	Bypass Middle Esophagus to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128K6	Bypass Middle Esophagus to Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128K9	Bypass Middle Esophagus to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128KA	Bypass Middle Esophagus to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128KB	Bypass Middle Esophagus to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128Z4	Bypass Middle Esophagus to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128Z6	Bypass Middle Esophagus to Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D128Z9	Bypass Middle Esophagus to Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128ZA	Bypass Middle Esophagus to Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D128ZB	Bypass Middle Esophagus to Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D13074	Bypass Lower Esophagus to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D13076	Bypass Lower Esophagus to Stomach with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D13079	Bypass Lower Esophagus to Duodenum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1307A	Bypass Lower Esophagus to Jejunum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1307B	Bypass Lower Esophagus to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D130J4	Bypass Lower Esophagus to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D130J6	Bypass Lower Esophagus to Stomach with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D130J9	Bypass Lower Esophagus to Duodenum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D130JA	Bypass Lower Esophagus to Jejunum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D130JB	Bypass Lower Esophagus to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D130K4	Bypass Lower Esophagus to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D130K6	Bypass Lower Esophagus to Stomach with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D130K9	Bypass Lower Esophagus to Duodenum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D130KA	Bypass Lower Esophagus to Jejunum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D130KB	Bypass Lower Esophagus to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D130Z4	Bypass Lower Esophagus to Cutaneous, Open Approach	PX	ICD-10-PCS
0D130Z6	Bypass Lower Esophagus to Stomach, Open Approach	PX	ICD-10-PCS
0D130Z9	Bypass Lower Esophagus to Duodenum, Open Approach	PX	ICD-10-PCS
0D130ZA	Bypass Lower Esophagus to Jejunum, Open Approach	PX	ICD-10-PCS
0D130ZB	Bypass Lower Esophagus to Ileum, Open Approach	PX	ICD-10-PCS
0D133J4	Bypass Lower Esophagus to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D13474	Bypass Lower Esophagus to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D13476	Bypass Lower Esophagus to Stomach with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D13479	Bypass Lower Esophagus to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1347A	Bypass Lower Esophagus to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1347B	Bypass Lower Esophagus to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134J4	Bypass Lower Esophagus to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134J6	Bypass Lower Esophagus to Stomach with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134J9	Bypass Lower Esophagus to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134JA	Bypass Lower Esophagus to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134JB	Bypass Lower Esophagus to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134K4	Bypass Lower Esophagus to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134K6	Bypass Lower Esophagus to Stomach with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134K9	Bypass Lower Esophagus to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134KA	Bypass Lower Esophagus to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134KB	Bypass Lower Esophagus to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134Z4	Bypass Lower Esophagus to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134Z6	Bypass Lower Esophagus to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134Z9	Bypass Lower Esophagus to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134ZA	Bypass Lower Esophagus to Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D134ZB	Bypass Lower Esophagus to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D13874	Bypass Lower Esophagus to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D13876	Bypass Lower Esophagus to Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D13879	Bypass Lower Esophagus to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1387A	Bypass Lower Esophagus to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1387B	Bypass Lower Esophagus to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138J4	Bypass Lower Esophagus to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138J6	Bypass Lower Esophagus to Stomach with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138J9	Bypass Lower Esophagus to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D138JA	Bypass Lower Esophagus to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138JB	Bypass Lower Esophagus to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138K4	Bypass Lower Esophagus to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138K6	Bypass Lower Esophagus to Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138K9	Bypass Lower Esophagus to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138KA	Bypass Lower Esophagus to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138KB	Bypass Lower Esophagus to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138Z4	Bypass Lower Esophagus to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138Z6	Bypass Lower Esophagus to Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138Z9	Bypass Lower Esophagus to Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138ZA	Bypass Lower Esophagus to Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D138ZB	Bypass Lower Esophagus to Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D15074	Bypass Esophagus to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D15076	Bypass Esophagus to Stomach with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D15079	Bypass Esophagus to Duodenum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1507A	Bypass Esophagus to Jejunum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1507B	Bypass Esophagus to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D150J4	Bypass Esophagus to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D150J6	Bypass Esophagus to Stomach with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D150J9	Bypass Esophagus to Duodenum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D150JA	Bypass Esophagus to Jejunum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D150JB	Bypass Esophagus to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D150K4	Bypass Esophagus to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D150K6	Bypass Esophagus to Stomach with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D150K9	Bypass Esophagus to Duodenum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D150KA	Bypass Esophagus to Jejunum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D150KB	Bypass Esophagus to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D150Z4	Bypass Esophagus to Cutaneous, Open Approach	PX	ICD-10-PCS
0D150Z6	Bypass Esophagus to Stomach, Open Approach	PX	ICD-10-PCS
0D150Z9	Bypass Esophagus to Duodenum, Open Approach	PX	ICD-10-PCS
0D150ZA	Bypass Esophagus to Jejunum, Open Approach	PX	ICD-10-PCS
0D150ZB	Bypass Esophagus to Ileum, Open Approach	PX	ICD-10-PCS
0D153J4	Bypass Esophagus to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D15474	Bypass Esophagus to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D15476	Bypass Esophagus to Stomach with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D15479	Bypass Esophagus to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1547A	Bypass Esophagus to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1547B	Bypass Esophagus to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154J4	Bypass Esophagus to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154J6	Bypass Esophagus to Stomach with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154J9	Bypass Esophagus to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154JA	Bypass Esophagus to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154JB	Bypass Esophagus to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154K4	Bypass Esophagus to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154K6	Bypass Esophagus to Stomach with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154K9	Bypass Esophagus to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154KA	Bypass Esophagus to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154KB	Bypass Esophagus to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154Z4	Bypass Esophagus to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154Z6	Bypass Esophagus to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154Z9	Bypass Esophagus to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154ZA	Bypass Esophagus to Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D154ZB	Bypass Esophagus to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0D15874	Bypass Esophagus to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D15876	Bypass Esophagus to Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D15879	Bypass Esophagus to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1587A	Bypass Esophagus to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1587B	Bypass Esophagus to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158J4	Bypass Esophagus to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158J6	Bypass Esophagus to Stomach with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158J9	Bypass Esophagus to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158JA	Bypass Esophagus to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158JB	Bypass Esophagus to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158K4	Bypass Esophagus to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158K6	Bypass Esophagus to Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158K9	Bypass Esophagus to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158KA	Bypass Esophagus to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158KB	Bypass Esophagus to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158Z4	Bypass Esophagus to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158Z6	Bypass Esophagus to Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158Z9	Bypass Esophagus to Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158ZA	Bypass Esophagus to Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D158ZB	Bypass Esophagus to Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D16074	Bypass Stomach to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D16079	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1607A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1607B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1607L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D160J4	Bypass Stomach to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D160J9	Bypass Stomach to Duodenum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0D160JA	Bypass Stomach to Jejunum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D160JB	Bypass Stomach to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D160JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D160K4	Bypass Stomach to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D160K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D160KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D160KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D160KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D160Z4	Bypass Stomach to Cutaneous, Open Approach	PX	ICD-10-PCS
0D160Z9	Bypass Stomach to Duodenum, Open Approach	PX	ICD-10-PCS
0D160ZA	Bypass Stomach to Jejunum, Open Approach	PX	ICD-10-PCS
0D160ZB	Bypass Stomach to Ileum, Open Approach	PX	ICD-10-PCS
0D160ZL	Bypass Stomach to Transverse Colon, Open Approach	PX	ICD-10-PCS
0D16474	Bypass Stomach to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D16479	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1647A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1647B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1647L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164J4	Bypass Stomach to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164J9	Bypass Stomach to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164JA	Bypass Stomach to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164JB	Bypass Stomach to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164K4	Bypass Stomach to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D164KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164Z4	Bypass Stomach to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164Z9	Bypass Stomach to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164ZA	Bypass Stomach to Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164ZB	Bypass Stomach to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D164ZL	Bypass Stomach to Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D16879	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1687A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1687B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1687L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168J9	Bypass Stomach to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168JA	Bypass Stomach to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168JB	Bypass Stomach to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168Z9	Bypass Stomach to Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168ZA	Bypass Stomach to Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168ZB	Bypass Stomach to Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D168ZL	Bypass Stomach to Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D18074	Bypass Small Intestine to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D18078	Bypass Small Intestine to Small Intestine with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1807H	Bypass Small Intestine to Cecum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1807K	Bypass Small Intestine to Ascending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1807L	Bypass Small Intestine to Transverse Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1807M	Bypass Small Intestine to Descending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1807N	Bypass Small Intestine to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1807P	Bypass Small Intestine to Rectum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1807Q	Bypass Small Intestine to Anus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D180J4	Bypass Small Intestine to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D180J8	Bypass Small Intestine to Small Intestine with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D180JH	Bypass Small Intestine to Cecum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D180JK	Bypass Small Intestine to Ascending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D180JL	Bypass Small Intestine to Transverse Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D180JM	Bypass Small Intestine to Descending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D180JN	Bypass Small Intestine to Sigmoid Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D180JP	Bypass Small Intestine to Rectum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D180JQ	Bypass Small Intestine to Anus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D180K4	Bypass Small Intestine to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D180K8	Bypass Small Intestine to Small Intestine with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D180KH	Bypass Small Intestine to Cecum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D180KK	Bypass Small Intestine to Ascending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D180KL	Bypass Small Intestine to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D180KM	Bypass Small Intestine to Descending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D180KN	Bypass Small Intestine to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D180KP	Bypass Small Intestine to Rectum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D180KQ	Bypass Small Intestine to Anus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D180Z4	Bypass Small Intestine to Cutaneous, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D180Z8	Bypass Small Intestine to Small Intestine, Open Approach	PX	ICD-10-PCS
0D180ZH	Bypass Small Intestine to Cecum, Open Approach	PX	ICD-10-PCS
0D180ZK	Bypass Small Intestine to Ascending Colon, Open Approach	PX	ICD-10-PCS
0D180ZL	Bypass Small Intestine to Transverse Colon, Open Approach	PX	ICD-10-PCS
0D180ZM	Bypass Small Intestine to Descending Colon, Open Approach	PX	ICD-10-PCS
0D180ZN	Bypass Small Intestine to Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D180ZP	Bypass Small Intestine to Rectum, Open Approach	PX	ICD-10-PCS
0D180ZQ	Bypass Small Intestine to Anus, Open Approach	PX	ICD-10-PCS
0D18474	Bypass Small Intestine to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D18478	Bypass Small Intestine to Small Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1847H	Bypass Small Intestine to Cecum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1847K	Bypass Small Intestine to Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1847L	Bypass Small Intestine to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1847M	Bypass Small Intestine to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1847N	Bypass Small Intestine to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1847P	Bypass Small Intestine to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1847Q	Bypass Small Intestine to Anus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184J4	Bypass Small Intestine to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184J8	Bypass Small Intestine to Small Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184JH	Bypass Small Intestine to Cecum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184JK	Bypass Small Intestine to Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184JL	Bypass Small Intestine to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184JM	Bypass Small Intestine to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184JN	Bypass Small Intestine to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184JP	Bypass Small Intestine to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184JQ	Bypass Small Intestine to Anus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D184K4	Bypass Small Intestine to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184K8	Bypass Small Intestine to Small Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184KH	Bypass Small Intestine to Cecum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184KK	Bypass Small Intestine to Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184KL	Bypass Small Intestine to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184KM	Bypass Small Intestine to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184KN	Bypass Small Intestine to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184KP	Bypass Small Intestine to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184KQ	Bypass Small Intestine to Anus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184Z4	Bypass Small Intestine to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184Z8	Bypass Small Intestine to Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184ZH	Bypass Small Intestine to Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184ZK	Bypass Small Intestine to Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184ZL	Bypass Small Intestine to Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184ZM	Bypass Small Intestine to Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184ZN	Bypass Small Intestine to Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184ZP	Bypass Small Intestine to Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D184ZQ	Bypass Small Intestine to Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D18874	Bypass Small Intestine to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D18878	Bypass Small Intestine to Small Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1887H	Bypass Small Intestine to Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1887K	Bypass Small Intestine to Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1887L	Bypass Small Intestine to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1887M	Bypass Small Intestine to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1887N	Bypass Small Intestine to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1887P	Bypass Small Intestine to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1887Q	Bypass Small Intestine to Anus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188J4	Bypass Small Intestine to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188J8	Bypass Small Intestine to Small Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188JH	Bypass Small Intestine to Cecum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188JK	Bypass Small Intestine to Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188JL	Bypass Small Intestine to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188JM	Bypass Small Intestine to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188JN	Bypass Small Intestine to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188JP	Bypass Small Intestine to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188JQ	Bypass Small Intestine to Anus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188K4	Bypass Small Intestine to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188K8	Bypass Small Intestine to Small Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188KH	Bypass Small Intestine to Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188KK	Bypass Small Intestine to Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188KL	Bypass Small Intestine to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188KM	Bypass Small Intestine to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188KN	Bypass Small Intestine to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188KP	Bypass Small Intestine to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188KQ	Bypass Small Intestine to Anus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188Z4	Bypass Small Intestine to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188Z8	Bypass Small Intestine to Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188ZH	Bypass Small Intestine to Cecum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188ZK	Bypass Small Intestine to Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D188ZL	Bypass Small Intestine to Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188ZM	Bypass Small Intestine to Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188ZN	Bypass Small Intestine to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188ZP	Bypass Small Intestine to Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D188ZQ	Bypass Small Intestine to Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D19074	Bypass Duodenum to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D19079	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1907A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1907B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1907L	Bypass Duodenum to Transverse Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D190J4	Bypass Duodenum to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D190J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D190JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D190JB	Bypass Duodenum to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D190JL	Bypass Duodenum to Transverse Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D190K4	Bypass Duodenum to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D190K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D190KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D190KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D190KL	Bypass Duodenum to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D190Z4	Bypass Duodenum to Cutaneous, Open Approach	PX	ICD-10-PCS
0D190Z9	Bypass Duodenum to Duodenum, Open Approach	PX	ICD-10-PCS
0D190ZA	Bypass Duodenum to Jejunum, Open Approach	PX	ICD-10-PCS
0D190ZB	Bypass Duodenum to Ileum, Open Approach	PX	ICD-10-PCS
0D190ZL	Bypass Duodenum to Transverse Colon, Open Approach	PX	ICD-10-PCS
0D193J4	Bypass Duodenum to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D19474	Bypass Duodenum to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D19479	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1947A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1947B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1947L	Bypass Duodenum to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194J4	Bypass Duodenum to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194JB	Bypass Duodenum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194JL	Bypass Duodenum to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194K4	Bypass Duodenum to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194KL	Bypass Duodenum to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194Z4	Bypass Duodenum to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194Z9	Bypass Duodenum to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194ZA	Bypass Duodenum to Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194ZB	Bypass Duodenum to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D194ZL	Bypass Duodenum to Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D19874	Bypass Duodenum to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D19879	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1987A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1987B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1987L	Bypass Duodenum to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198J4	Bypass Duodenum to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D198JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198JB	Bypass Duodenum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198JL	Bypass Duodenum to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198K4	Bypass Duodenum to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198KL	Bypass Duodenum to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198Z4	Bypass Duodenum to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198Z9	Bypass Duodenum to Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198ZA	Bypass Duodenum to Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198ZB	Bypass Duodenum to Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D198ZL	Bypass Duodenum to Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A074	Bypass Jejunum to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A07A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A07B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A07H	Bypass Jejunum to Cecum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A07K	Bypass Jejunum to Ascending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A07L	Bypass Jejunum to Transverse Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A07M	Bypass Jejunum to Descending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A07N	Bypass Jejunum to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A07P	Bypass Jejunum to Rectum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A07Q	Bypass Jejunum to Anus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0J4	Bypass Jejunum to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1A0JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1A0JB	Bypass Jejunum to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1A0JH	Bypass Jejunum to Cecum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1A0JK	Bypass Jejunum to Ascending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1A0JL	Bypass Jejunum to Transverse Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1A0JM	Bypass Jejunum to Descending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1A0JN	Bypass Jejunum to Sigmoid Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1A0JP	Bypass Jejunum to Rectum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1A0JQ	Bypass Jejunum to Anus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1A0K4	Bypass Jejunum to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0KH	Bypass Jejunum to Cecum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0KK	Bypass Jejunum to Ascending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0KL	Bypass Jejunum to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0KM	Bypass Jejunum to Descending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0KN	Bypass Jejunum to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0KP	Bypass Jejunum to Rectum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0KQ	Bypass Jejunum to Anus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1A0Z4	Bypass Jejunum to Cutaneous, Open Approach	PX	ICD-10-PCS
0D1A0ZA	Bypass Jejunum to Jejunum, Open Approach	PX	ICD-10-PCS
0D1A0ZB	Bypass Jejunum to Ileum, Open Approach	PX	ICD-10-PCS
0D1A0ZH	Bypass Jejunum to Cecum, Open Approach	PX	ICD-10-PCS
0D1A0ZK	Bypass Jejunum to Ascending Colon, Open Approach	PX	ICD-10-PCS
0D1A0ZL	Bypass Jejunum to Transverse Colon, Open Approach	PX	ICD-10-PCS
0D1A0ZM	Bypass Jejunum to Descending Colon, Open Approach	PX	ICD-10-PCS
0D1A0ZN	Bypass Jejunum to Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D1A0ZP	Bypass Jejunum to Rectum, Open Approach	PX	ICD-10-PCS
0D1A0ZQ	Bypass Jejunum to Anus, Open Approach	PX	ICD-10-PCS
0D1A3J4	Bypass Jejunum to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D1A474	Bypass Jejunum to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A47A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A47B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A47H	Bypass Jejunum to Cecum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A47K	Bypass Jejunum to Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A47L	Bypass Jejunum to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1A47M	Bypass Jejunum to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A47N	Bypass Jejunum to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A47P	Bypass Jejunum to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A47Q	Bypass Jejunum to Anus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4J4	Bypass Jejunum to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4JB	Bypass Jejunum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4JH	Bypass Jejunum to Cecum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4JK	Bypass Jejunum to Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4JL	Bypass Jejunum to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4JM	Bypass Jejunum to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4JN	Bypass Jejunum to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4JP	Bypass Jejunum to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4JQ	Bypass Jejunum to Anus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4K4	Bypass Jejunum to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4KH	Bypass Jejunum to Cecum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4KK	Bypass Jejunum to Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4KL	Bypass Jejunum to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4KM	Bypass Jejunum to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4KN	Bypass Jejunum to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1A4KP	Bypass Jejunum to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4KQ	Bypass Jejunum to Anus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4Z4	Bypass Jejunum to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4ZA	Bypass Jejunum to Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4ZB	Bypass Jejunum to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4ZH	Bypass Jejunum to Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4ZK	Bypass Jejunum to Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4ZL	Bypass Jejunum to Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4ZM	Bypass Jejunum to Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4ZN	Bypass Jejunum to Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4ZP	Bypass Jejunum to Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A4ZQ	Bypass Jejunum to Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1A874	Bypass Jejunum to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A87A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A87B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A87H	Bypass Jejunum to Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A87K	Bypass Jejunum to Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A87L	Bypass Jejunum to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A87M	Bypass Jejunum to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A87N	Bypass Jejunum to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A87P	Bypass Jejunum to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A87Q	Bypass Jejunum to Anus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8J4	Bypass Jejunum to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8JB	Bypass Jejunum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8JH	Bypass Jejunum to Cecum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8JK	Bypass Jejunum to Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1A8JL	Bypass Jejunum to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8JM	Bypass Jejunum to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8JN	Bypass Jejunum to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8JP	Bypass Jejunum to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8JQ	Bypass Jejunum to Anus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8K4	Bypass Jejunum to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8KH	Bypass Jejunum to Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8KK	Bypass Jejunum to Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8KL	Bypass Jejunum to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8KM	Bypass Jejunum to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8KN	Bypass Jejunum to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8KP	Bypass Jejunum to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8KQ	Bypass Jejunum to Anus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8Z4	Bypass Jejunum to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8ZA	Bypass Jejunum to Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8ZB	Bypass Jejunum to Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8ZH	Bypass Jejunum to Cecum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8ZK	Bypass Jejunum to Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8ZL	Bypass Jejunum to Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8ZM	Bypass Jejunum to Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8ZN	Bypass Jejunum to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8ZP	Bypass Jejunum to Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1A8ZQ	Bypass Jejunum to Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B074	Bypass Ileum to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B07B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1B07H	Bypass Ileum to Cecum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B07K	Bypass Ileum to Ascending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B07L	Bypass Ileum to Transverse Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B07M	Bypass Ileum to Descending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B07N	Bypass Ileum to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B07P	Bypass Ileum to Rectum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B07Q	Bypass Ileum to Anus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B0J4	Bypass Ileum to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1B0JB	Bypass Ileum to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1B0JH	Bypass Ileum to Cecum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1B0JK	Bypass Ileum to Ascending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1B0JL	Bypass Ileum to Transverse Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1B0JM	Bypass Ileum to Descending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1B0JN	Bypass Ileum to Sigmoid Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1B0JP	Bypass Ileum to Rectum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1B0JQ	Bypass Ileum to Anus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1B0K4	Bypass Ileum to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B0KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B0KH	Bypass Ileum to Cecum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B0KK	Bypass Ileum to Ascending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B0KL	Bypass Ileum to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B0KM	Bypass Ileum to Descending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B0KN	Bypass Ileum to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B0KP	Bypass Ileum to Rectum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B0KQ	Bypass Ileum to Anus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1B0Z4	Bypass Ileum to Cutaneous, Open Approach	PX	ICD-10-PCS
0D1B0ZB	Bypass Ileum to Ileum, Open Approach	PX	ICD-10-PCS
0D1B0ZH	Bypass Ileum to Cecum, Open Approach	PX	ICD-10-PCS
0D1B0ZK	Bypass Ileum to Ascending Colon, Open Approach	PX	ICD-10-PCS
0D1B0ZL	Bypass Ileum to Transverse Colon, Open Approach	PX	ICD-10-PCS
0D1B0ZM	Bypass Ileum to Descending Colon, Open Approach	PX	ICD-10-PCS
0D1B0ZN	Bypass Ileum to Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D1B0ZP	Bypass Ileum to Rectum, Open Approach	PX	ICD-10-PCS
0D1B0ZQ	Bypass Ileum to Anus, Open Approach	PX	ICD-10-PCS
0D1B3J4	Bypass Ileum to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1B474	Bypass Ileum to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B47B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B47H	Bypass Ileum to Cecum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B47K	Bypass Ileum to Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B47L	Bypass Ileum to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B47M	Bypass Ileum to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B47N	Bypass Ileum to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B47P	Bypass Ileum to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B47Q	Bypass Ileum to Anus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4J4	Bypass Ileum to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4JB	Bypass Ileum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4JH	Bypass Ileum to Cecum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4JK	Bypass Ileum to Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4JL	Bypass Ileum to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4JM	Bypass Ileum to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4JN	Bypass Ileum to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4JP	Bypass Ileum to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4JQ	Bypass Ileum to Anus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4K4	Bypass Ileum to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4KH	Bypass Ileum to Cecum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4KK	Bypass Ileum to Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1B4KL	Bypass Ileum to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4KM	Bypass Ileum to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4KN	Bypass Ileum to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4KP	Bypass Ileum to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4KQ	Bypass Ileum to Anus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4Z4	Bypass Ileum to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4ZB	Bypass Ileum to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4ZH	Bypass Ileum to Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4ZK	Bypass Ileum to Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4ZL	Bypass Ileum to Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4ZM	Bypass Ileum to Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4ZN	Bypass Ileum to Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4ZP	Bypass Ileum to Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B4ZQ	Bypass Ileum to Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1B874	Bypass Ileum to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B87B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B87H	Bypass Ileum to Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B87K	Bypass Ileum to Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B87L	Bypass Ileum to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B87M	Bypass Ileum to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B87N	Bypass Ileum to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B87P	Bypass Ileum to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B87Q	Bypass Ileum to Anus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8J4	Bypass Ileum to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8JB	Bypass Ileum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8JH	Bypass Ileum to Cecum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8JK	Bypass Ileum to Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1B8JL	Bypass Ileum to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8JM	Bypass Ileum to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8JN	Bypass Ileum to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8JP	Bypass Ileum to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8JQ	Bypass Ileum to Anus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8K4	Bypass Ileum to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8KH	Bypass Ileum to Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8KK	Bypass Ileum to Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8KL	Bypass Ileum to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8KM	Bypass Ileum to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8KN	Bypass Ileum to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8KP	Bypass Ileum to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8KQ	Bypass Ileum to Anus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8Z4	Bypass Ileum to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8ZB	Bypass Ileum to Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8ZH	Bypass Ileum to Cecum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8ZK	Bypass Ileum to Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8ZL	Bypass Ileum to Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8ZM	Bypass Ileum to Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8ZN	Bypass Ileum to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8ZP	Bypass Ileum to Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1B8ZQ	Bypass Ileum to Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E074	Bypass Large Intestine to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1E07E	Bypass Large Intestine to Large Intestine with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1E07P	Bypass Large Intestine to Rectum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1E0J4	Bypass Large Intestine to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1E0JE	Bypass Large Intestine to Large Intestine with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1E0JP	Bypass Large Intestine to Rectum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1E0K4	Bypass Large Intestine to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1E0KE	Bypass Large Intestine to Large Intestine with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1E0KP	Bypass Large Intestine to Rectum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1E0Z4	Bypass Large Intestine to Cutaneous, Open Approach	PX	ICD-10-PCS
0D1E0ZE	Bypass Large Intestine to Large Intestine, Open Approach	PX	ICD-10-PCS
0D1E0ZP	Bypass Large Intestine to Rectum, Open Approach	PX	ICD-10-PCS
0D1E474	Bypass Large Intestine to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E47E	Bypass Large Intestine to Large Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E47P	Bypass Large Intestine to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E4J4	Bypass Large Intestine to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E4JE	Bypass Large Intestine to Large Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E4JP	Bypass Large Intestine to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E4K4	Bypass Large Intestine to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E4KE	Bypass Large Intestine to Large Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E4KP	Bypass Large Intestine to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E4Z4	Bypass Large Intestine to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E4ZE	Bypass Large Intestine to Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E4ZP	Bypass Large Intestine to Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1E874	Bypass Large Intestine to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E87E	Bypass Large Intestine to Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E87P	Bypass Large Intestine to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E8J4	Bypass Large Intestine to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E8JE	Bypass Large Intestine to Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E8JP	Bypass Large Intestine to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1E8K4	Bypass Large Intestine to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E8KE	Bypass Large Intestine to Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E8KP	Bypass Large Intestine to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E8Z4	Bypass Large Intestine to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E8ZE	Bypass Large Intestine to Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1E8ZP	Bypass Large Intestine to Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H074	Bypass Cecum to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H07H	Bypass Cecum to Cecum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H07K	Bypass Cecum to Ascending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H07L	Bypass Cecum to Transverse Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H07M	Bypass Cecum to Descending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H07N	Bypass Cecum to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H07P	Bypass Cecum to Rectum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H0J4	Bypass Cecum to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1H0JH	Bypass Cecum to Cecum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1H0JK	Bypass Cecum to Ascending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1H0JL	Bypass Cecum to Transverse Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1H0JM	Bypass Cecum to Descending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1H0JN	Bypass Cecum to Sigmoid Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1H0JP	Bypass Cecum to Rectum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1H0K4	Bypass Cecum to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H0KH	Bypass Cecum to Cecum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H0KK	Bypass Cecum to Ascending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H0KL	Bypass Cecum to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H0KM	Bypass Cecum to Descending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H0KN	Bypass Cecum to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H0KP	Bypass Cecum to Rectum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1H0Z4	Bypass Cecum to Cutaneous, Open Approach	PX	ICD-10-PCS
0D1H0ZH	Bypass Cecum to Cecum, Open Approach	PX	ICD-10-PCS
0D1H0ZK	Bypass Cecum to Ascending Colon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1H0ZL	Bypass Cecum to Transverse Colon, Open Approach	PX	ICD-10-PCS
0D1H0ZM	Bypass Cecum to Descending Colon, Open Approach	PX	ICD-10-PCS
0D1H0ZN	Bypass Cecum to Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D1H0ZP	Bypass Cecum to Rectum, Open Approach	PX	ICD-10-PCS
0D1H3J4	Bypass Cecum to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D1H474	Bypass Cecum to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H47H	Bypass Cecum to Cecum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H47K	Bypass Cecum to Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H47L	Bypass Cecum to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H47M	Bypass Cecum to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H47N	Bypass Cecum to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H47P	Bypass Cecum to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4J4	Bypass Cecum to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4JH	Bypass Cecum to Cecum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4JK	Bypass Cecum to Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4JL	Bypass Cecum to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4JM	Bypass Cecum to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4JN	Bypass Cecum to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4JP	Bypass Cecum to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4K4	Bypass Cecum to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4KH	Bypass Cecum to Cecum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4KK	Bypass Cecum to Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4KL	Bypass Cecum to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4KM	Bypass Cecum to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4KN	Bypass Cecum to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1H4KP	Bypass Cecum to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4Z4	Bypass Cecum to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4ZH	Bypass Cecum to Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4ZK	Bypass Cecum to Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4ZL	Bypass Cecum to Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4ZM	Bypass Cecum to Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4ZN	Bypass Cecum to Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H4ZP	Bypass Cecum to Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1H874	Bypass Cecum to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H87H	Bypass Cecum to Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H87K	Bypass Cecum to Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H87L	Bypass Cecum to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H87M	Bypass Cecum to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H87N	Bypass Cecum to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H87P	Bypass Cecum to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8J4	Bypass Cecum to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8JH	Bypass Cecum to Cecum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8JK	Bypass Cecum to Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8JL	Bypass Cecum to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8JM	Bypass Cecum to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8JN	Bypass Cecum to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8JP	Bypass Cecum to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8K4	Bypass Cecum to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8KH	Bypass Cecum to Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8KK	Bypass Cecum to Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8KL	Bypass Cecum to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1H8KM	Bypass Cecum to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8KN	Bypass Cecum to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8KP	Bypass Cecum to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8Z4	Bypass Cecum to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8ZH	Bypass Cecum to Cecum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8ZK	Bypass Cecum to Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8ZL	Bypass Cecum to Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8ZM	Bypass Cecum to Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8ZN	Bypass Cecum to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1H8ZP	Bypass Cecum to Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K074	Bypass Ascending Colon to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K07K	Bypass Ascending Colon to Ascending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K07L	Bypass Ascending Colon to Transverse Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K07M	Bypass Ascending Colon to Descending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K07N	Bypass Ascending Colon to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K07P	Bypass Ascending Colon to Rectum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K0J4	Bypass Ascending Colon to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1K0JK	Bypass Ascending Colon to Ascending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1K0JL	Bypass Ascending Colon to Transverse Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1K0JM	Bypass Ascending Colon to Descending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1K0JN	Bypass Ascending Colon to Sigmoid Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1K0JP	Bypass Ascending Colon to Rectum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1K0K4	Bypass Ascending Colon to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K0KK	Bypass Ascending Colon to Ascending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K0KL	Bypass Ascending Colon to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K0KM	Bypass Ascending Colon to Descending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1K0KN	Bypass Ascending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K0KP	Bypass Ascending Colon to Rectum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1K0Z4	Bypass Ascending Colon to Cutaneous, Open Approach	PX	ICD-10-PCS
0D1K0ZK	Bypass Ascending Colon to Ascending Colon, Open Approach	PX	ICD-10-PCS
0D1K0ZL	Bypass Ascending Colon to Transverse Colon, Open Approach	PX	ICD-10-PCS
0D1K0ZM	Bypass Ascending Colon to Descending Colon, Open Approach	PX	ICD-10-PCS
0D1K0ZN	Bypass Ascending Colon to Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D1K0ZP	Bypass Ascending Colon to Rectum, Open Approach	PX	ICD-10-PCS
0D1K3J4	Bypass Ascending Colon to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D1K474	Bypass Ascending Colon to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K47K	Bypass Ascending Colon to Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K47L	Bypass Ascending Colon to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K47M	Bypass Ascending Colon to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K47N	Bypass Ascending Colon to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K47P	Bypass Ascending Colon to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4J4	Bypass Ascending Colon to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4JK	Bypass Ascending Colon to Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4JL	Bypass Ascending Colon to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4JM	Bypass Ascending Colon to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4JN	Bypass Ascending Colon to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4JP	Bypass Ascending Colon to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4K4	Bypass Ascending Colon to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4KK	Bypass Ascending Colon to Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4KL	Bypass Ascending Colon to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4KM	Bypass Ascending Colon to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1K4KN	Bypass Ascending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4KP	Bypass Ascending Colon to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4Z4	Bypass Ascending Colon to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4ZK	Bypass Ascending Colon to Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4ZL	Bypass Ascending Colon to Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4ZM	Bypass Ascending Colon to Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4ZN	Bypass Ascending Colon to Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K4ZP	Bypass Ascending Colon to Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1K874	Bypass Ascending Colon to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K87K	Bypass Ascending Colon to Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K87L	Bypass Ascending Colon to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K87M	Bypass Ascending Colon to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K87N	Bypass Ascending Colon to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K87P	Bypass Ascending Colon to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8J4	Bypass Ascending Colon to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8JK	Bypass Ascending Colon to Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8JL	Bypass Ascending Colon to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8JM	Bypass Ascending Colon to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8JN	Bypass Ascending Colon to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8JP	Bypass Ascending Colon to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8K4	Bypass Ascending Colon to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8KK	Bypass Ascending Colon to Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8KL	Bypass Ascending Colon to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8KM	Bypass Ascending Colon to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1K8KN	Bypass Ascending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8KP	Bypass Ascending Colon to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8Z4	Bypass Ascending Colon to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8ZK	Bypass Ascending Colon to Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8ZL	Bypass Ascending Colon to Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8ZM	Bypass Ascending Colon to Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8ZN	Bypass Ascending Colon to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1K8ZP	Bypass Ascending Colon to Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L074	Bypass Transverse Colon to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1L07L	Bypass Transverse Colon to Transverse Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1L07M	Bypass Transverse Colon to Descending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1L07N	Bypass Transverse Colon to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1L07P	Bypass Transverse Colon to Rectum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1L0J4	Bypass Transverse Colon to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1L0JL	Bypass Transverse Colon to Transverse Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1L0JM	Bypass Transverse Colon to Descending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1L0JN	Bypass Transverse Colon to Sigmoid Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1L0JP	Bypass Transverse Colon to Rectum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1L0K4	Bypass Transverse Colon to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1L0KL	Bypass Transverse Colon to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1L0KM	Bypass Transverse Colon to Descending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1L0KN	Bypass Transverse Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1L0KP	Bypass Transverse Colon to Rectum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1L0Z4	Bypass Transverse Colon to Cutaneous, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1L0ZL	Bypass Transverse Colon to Transverse Colon, Open Approach	PX	ICD-10-PCS
0D1L0ZM	Bypass Transverse Colon to Descending Colon, Open Approach	PX	ICD-10-PCS
0D1L0ZN	Bypass Transverse Colon to Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D1L0ZP	Bypass Transverse Colon to Rectum, Open Approach	PX	ICD-10-PCS
0D1L3J4	Bypass Transverse Colon to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D1L474	Bypass Transverse Colon to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L47L	Bypass Transverse Colon to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L47M	Bypass Transverse Colon to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L47N	Bypass Transverse Colon to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L47P	Bypass Transverse Colon to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4J4	Bypass Transverse Colon to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4JL	Bypass Transverse Colon to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4JM	Bypass Transverse Colon to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4JN	Bypass Transverse Colon to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4JP	Bypass Transverse Colon to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4K4	Bypass Transverse Colon to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4KL	Bypass Transverse Colon to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4KM	Bypass Transverse Colon to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4KN	Bypass Transverse Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4KP	Bypass Transverse Colon to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4Z4	Bypass Transverse Colon to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4ZL	Bypass Transverse Colon to Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4ZM	Bypass Transverse Colon to Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4ZN	Bypass Transverse Colon to Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L4ZP	Bypass Transverse Colon to Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1L874	Bypass Transverse Colon to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1L87L	Bypass Transverse Colon to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L87M	Bypass Transverse Colon to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L87N	Bypass Transverse Colon to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L87P	Bypass Transverse Colon to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8J4	Bypass Transverse Colon to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8JL	Bypass Transverse Colon to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8JM	Bypass Transverse Colon to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8JN	Bypass Transverse Colon to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8JP	Bypass Transverse Colon to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8K4	Bypass Transverse Colon to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8KL	Bypass Transverse Colon to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8KM	Bypass Transverse Colon to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8KN	Bypass Transverse Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8KP	Bypass Transverse Colon to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8Z4	Bypass Transverse Colon to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8ZL	Bypass Transverse Colon to Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8ZM	Bypass Transverse Colon to Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8ZN	Bypass Transverse Colon to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1L8ZP	Bypass Transverse Colon to Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M074	Bypass Descending Colon to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1M07M	Bypass Descending Colon to Descending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1M07N	Bypass Descending Colon to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1M07P	Bypass Descending Colon to Rectum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1M0J4	Bypass Descending Colon to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1M0JM	Bypass Descending Colon to Descending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1M0JN	Bypass Descending Colon to Sigmoid Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1M0JP	Bypass Descending Colon to Rectum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1M0K4	Bypass Descending Colon to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1M0KM	Bypass Descending Colon to Descending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1M0KN	Bypass Descending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1M0KP	Bypass Descending Colon to Rectum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1M0Z4	Bypass Descending Colon to Cutaneous, Open Approach	PX	ICD-10-PCS
0D1M0ZM	Bypass Descending Colon to Descending Colon, Open Approach	PX	ICD-10-PCS
0D1M0ZN	Bypass Descending Colon to Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D1M0ZP	Bypass Descending Colon to Rectum, Open Approach	PX	ICD-10-PCS
0D1M3J4	Bypass Descending Colon to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D1M474	Bypass Descending Colon to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M47M	Bypass Descending Colon to Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M47N	Bypass Descending Colon to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M47P	Bypass Descending Colon to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4J4	Bypass Descending Colon to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4JM	Bypass Descending Colon to Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4JN	Bypass Descending Colon to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4JP	Bypass Descending Colon to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4K4	Bypass Descending Colon to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4KM	Bypass Descending Colon to Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4KN	Bypass Descending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1M4KP	Bypass Descending Colon to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4Z4	Bypass Descending Colon to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4ZM	Bypass Descending Colon to Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4ZN	Bypass Descending Colon to Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M4ZP	Bypass Descending Colon to Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1M874	Bypass Descending Colon to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M87M	Bypass Descending Colon to Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M87N	Bypass Descending Colon to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M87P	Bypass Descending Colon to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8J4	Bypass Descending Colon to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8JM	Bypass Descending Colon to Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8JN	Bypass Descending Colon to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8JP	Bypass Descending Colon to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8K4	Bypass Descending Colon to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8KM	Bypass Descending Colon to Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8KN	Bypass Descending Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8KP	Bypass Descending Colon to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8Z4	Bypass Descending Colon to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8ZM	Bypass Descending Colon to Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8ZN	Bypass Descending Colon to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1M8ZP	Bypass Descending Colon to Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N074	Bypass Sigmoid Colon to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1N07N	Bypass Sigmoid Colon to Sigmoid Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1N07P	Bypass Sigmoid Colon to Rectum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1N0J4	Bypass Sigmoid Colon to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1N0JN	Bypass Sigmoid Colon to Sigmoid Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1N0JP	Bypass Sigmoid Colon to Rectum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0D1N0K4	Bypass Sigmoid Colon to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1N0KN	Bypass Sigmoid Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1N0KP	Bypass Sigmoid Colon to Rectum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0D1N0Z4	Bypass Sigmoid Colon to Cutaneous, Open Approach	PX	ICD-10-PCS
0D1N0ZN	Bypass Sigmoid Colon to Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D1N0ZP	Bypass Sigmoid Colon to Rectum, Open Approach	PX	ICD-10-PCS
0D1N3J4	Bypass Sigmoid Colon to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0D1N474	Bypass Sigmoid Colon to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N47N	Bypass Sigmoid Colon to Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N47P	Bypass Sigmoid Colon to Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N4J4	Bypass Sigmoid Colon to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N4JN	Bypass Sigmoid Colon to Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N4JP	Bypass Sigmoid Colon to Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N4K4	Bypass Sigmoid Colon to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N4KN	Bypass Sigmoid Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N4KP	Bypass Sigmoid Colon to Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N4Z4	Bypass Sigmoid Colon to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N4ZN	Bypass Sigmoid Colon to Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N4ZP	Bypass Sigmoid Colon to Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D1N874	Bypass Sigmoid Colon to Cutaneous with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N87N	Bypass Sigmoid Colon to Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N87P	Bypass Sigmoid Colon to Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N8J4	Bypass Sigmoid Colon to Cutaneous with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1N8JN	Bypass Sigmoid Colon to Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N8JP	Bypass Sigmoid Colon to Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N8K4	Bypass Sigmoid Colon to Cutaneous with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N8KN	Bypass Sigmoid Colon to Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N8KP	Bypass Sigmoid Colon to Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N8Z4	Bypass Sigmoid Colon to Cutaneous, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N8ZN	Bypass Sigmoid Colon to Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D1N8ZP	Bypass Sigmoid Colon to Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D510Z3	Destruction of Upper Esophagus using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D510ZZ	Destruction of Upper Esophagus, Open Approach	PX	ICD-10-PCS
0D513Z3	Destruction of Upper Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D513ZZ	Destruction of Upper Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0D514Z3	Destruction of Upper Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D514ZZ	Destruction of Upper Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D517ZZ	Destruction of Upper Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D520Z3	Destruction of Middle Esophagus using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D520ZZ	Destruction of Middle Esophagus, Open Approach	PX	ICD-10-PCS
0D523Z3	Destruction of Middle Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D523ZZ	Destruction of Middle Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0D524Z3	Destruction of Middle Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D524ZZ	Destruction of Middle Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D527ZZ	Destruction of Middle Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D530Z3	Destruction of Lower Esophagus using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D530ZZ	Destruction of Lower Esophagus, Open Approach	PX	ICD-10-PCS
0D533Z3	Destruction of Lower Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D533ZZ	Destruction of Lower Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0D534Z3	Destruction of Lower Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D534ZZ	Destruction of Lower Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D537ZZ	Destruction of Lower Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D540Z3	Destruction of Esophagogastric Junction using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D540ZZ	Destruction of Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0D543Z3	Destruction of Esophagogastric Junction using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D543ZZ	Destruction of Esophagogastric Junction, Percutaneous Approach	PX	ICD-10-PCS
0D544Z3	Destruction of Esophagogastric Junction using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D544ZZ	Destruction of Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D547ZZ	Destruction of Esophagogastric Junction, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D550Z3	Destruction of Esophagus using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D550ZZ	Destruction of Esophagus, Open Approach	PX	ICD-10-PCS
0D553Z3	Destruction of Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D553ZZ	Destruction of Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0D554Z3	Destruction of Esophagus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D554ZZ	Destruction of Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D557ZZ	Destruction of Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D560Z3	Destruction of Stomach using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D560ZZ	Destruction of Stomach, Open Approach	PX	ICD-10-PCS
0D563Z3	Destruction of Stomach using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D563ZZ	Destruction of Stomach, Percutaneous Approach	PX	ICD-10-PCS
0D564Z3	Destruction of Stomach using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D564ZZ	Destruction of Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D567ZZ	Destruction of Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D570Z3	Destruction of Stomach, Pylorus using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D570ZZ	Destruction of Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0D573Z3	Destruction of Stomach, Pylorus using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D573ZZ	Destruction of Stomach, Pylorus, Percutaneous Approach	PX	ICD-10-PCS
0D574Z3	Destruction of Stomach, Pylorus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D574ZZ	Destruction of Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D577ZZ	Destruction of Stomach, Pylorus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D580Z3	Destruction of Small Intestine using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D580ZZ	Destruction of Small Intestine, Open Approach	PX	ICD-10-PCS
0D583Z3	Destruction of Small Intestine using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D583ZZ	Destruction of Small Intestine, Percutaneous Approach	PX	ICD-10-PCS
0D584Z3	Destruction of Small Intestine using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D584ZZ	Destruction of Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D587ZZ	Destruction of Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D590Z3	Destruction of Duodenum using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D590ZZ	Destruction of Duodenum, Open Approach	PX	ICD-10-PCS
0D593Z3	Destruction of Duodenum using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D593ZZ	Destruction of Duodenum, Percutaneous Approach	PX	ICD-10-PCS
0D594Z3	Destruction of Duodenum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D594ZZ	Destruction of Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D597ZZ	Destruction of Duodenum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5A0Z3	Destruction of Jejunum using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5A0ZZ	Destruction of Jejunum, Open Approach	PX	ICD-10-PCS
0D5A3Z3	Destruction of Jejunum using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5A3ZZ	Destruction of Jejunum, Percutaneous Approach	PX	ICD-10-PCS
0D5A4Z3	Destruction of Jejunum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5A4ZZ	Destruction of Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5A7ZZ	Destruction of Jejunum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5B0Z3	Destruction of Ileum using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5B0ZZ	Destruction of Ileum, Open Approach	PX	ICD-10-PCS
0D5B3Z3	Destruction of Ileum using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5B3ZZ	Destruction of Ileum, Percutaneous Approach	PX	ICD-10-PCS
0D5B4Z3	Destruction of Ileum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5B4ZZ	Destruction of Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5B7ZZ	Destruction of Ileum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5C0Z3	Destruction of Ileocecal Valve using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5C0ZZ	Destruction of Ileocecal Valve, Open Approach	PX	ICD-10-PCS
0D5C3Z3	Destruction of Ileocecal Valve using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5C3ZZ	Destruction of Ileocecal Valve, Percutaneous Approach	PX	ICD-10-PCS
0D5C4Z3	Destruction of Ileocecal Valve using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5C4ZZ	Destruction of Ileocecal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5C7ZZ	Destruction of Ileocecal Valve, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5E0Z3	Destruction of Large Intestine using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D5E0ZZ	Destruction of Large Intestine, Open Approach	PX	ICD-10-PCS
0D5E3Z3	Destruction of Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5E3ZZ	Destruction of Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0D5E4Z3	Destruction of Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5E4ZZ	Destruction of Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5E7ZZ	Destruction of Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5F0Z3	Destruction of Right Large Intestine using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5F0ZZ	Destruction of Right Large Intestine, Open Approach	PX	ICD-10-PCS
0D5F3Z3	Destruction of Right Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5F3ZZ	Destruction of Right Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0D5F4Z3	Destruction of Right Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5F4ZZ	Destruction of Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5F7ZZ	Destruction of Right Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5G0Z3	Destruction of Left Large Intestine using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5G0ZZ	Destruction of Left Large Intestine, Open Approach	PX	ICD-10-PCS
0D5G3Z3	Destruction of Left Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5G3ZZ	Destruction of Left Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0D5G4Z3	Destruction of Left Large Intestine using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5G4ZZ	Destruction of Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5G7ZZ	Destruction of Left Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5H0Z3	Destruction of Cecum using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5H0ZZ	Destruction of Cecum, Open Approach	PX	ICD-10-PCS
0D5H3Z3	Destruction of Cecum using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5H3ZZ	Destruction of Cecum, Percutaneous Approach	PX	ICD-10-PCS
0D5H4Z3	Destruction of Cecum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5H4ZZ	Destruction of Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5H7ZZ	Destruction of Cecum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5J0Z3	Destruction of Appendix using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5J0ZZ	Destruction of Appendix, Open Approach	PX	ICD-10-PCS
0D5J3Z3	Destruction of Appendix using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5J3ZZ	Destruction of Appendix, Percutaneous Approach	PX	ICD-10-PCS
0D5J4Z3	Destruction of Appendix using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D5J4ZZ	Destruction of Appendix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5J7ZZ	Destruction of Appendix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5J8ZZ	Destruction of Appendix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D5K0Z3	Destruction of Ascending Colon using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5K0ZZ	Destruction of Ascending Colon, Open Approach	PX	ICD-10-PCS
0D5K3Z3	Destruction of Ascending Colon using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5K3ZZ	Destruction of Ascending Colon, Percutaneous Approach	PX	ICD-10-PCS
0D5K4Z3	Destruction of Ascending Colon using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5K4ZZ	Destruction of Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5K7ZZ	Destruction of Ascending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5L0Z3	Destruction of Transverse Colon using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5L0ZZ	Destruction of Transverse Colon, Open Approach	PX	ICD-10-PCS
0D5L3Z3	Destruction of Transverse Colon using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5L3ZZ	Destruction of Transverse Colon, Percutaneous Approach	PX	ICD-10-PCS
0D5L4Z3	Destruction of Transverse Colon using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5L4ZZ	Destruction of Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5L7ZZ	Destruction of Transverse Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5M0Z3	Destruction of Descending Colon using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5M0ZZ	Destruction of Descending Colon, Open Approach	PX	ICD-10-PCS
0D5M3Z3	Destruction of Descending Colon using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5M3ZZ	Destruction of Descending Colon, Percutaneous Approach	PX	ICD-10-PCS
0D5M4Z3	Destruction of Descending Colon using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5M4ZZ	Destruction of Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5M7ZZ	Destruction of Descending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5N0Z3	Destruction of Sigmoid Colon using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5N0ZZ	Destruction of Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D5N3Z3	Destruction of Sigmoid Colon using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5N3ZZ	Destruction of Sigmoid Colon, Percutaneous Approach	PX	ICD-10-PCS
0D5N4Z3	Destruction of Sigmoid Colon using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5N4ZZ	Destruction of Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5N7ZZ	Destruction of Sigmoid Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D5P0Z3	Destruction of Rectum using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5P0ZZ	Destruction of Rectum, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D5P3Z3	Destruction of Rectum using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5P4Z3	Destruction of Rectum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5P4ZZ	Destruction of Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5Q0Z3	Destruction of Anus using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0D5Q0ZZ	Destruction of Anus, Open Approach	PX	ICD-10-PCS
0D5Q3Z3	Destruction of Anus using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0D5Q4Z3	Destruction of Anus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5Q4ZZ	Destruction of Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5R0ZZ	Destruction of Anal Sphincter, Open Approach	PX	ICD-10-PCS
0D5R4ZZ	Destruction of Anal Sphincter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5S0ZZ	Destruction of Greater Omentum, Open Approach	PX	ICD-10-PCS
0D5S3ZZ	Destruction of Greater Omentum, Percutaneous Approach	PX	ICD-10-PCS
0D5S4ZZ	Destruction of Greater Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5T0ZZ	Destruction of Lesser Omentum, Open Approach	PX	ICD-10-PCS
0D5T3ZZ	Destruction of Lesser Omentum, Percutaneous Approach	PX	ICD-10-PCS
0D5T4ZZ	Destruction of Lesser Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5U0ZZ	Destruction of Omentum, Open Approach	PX	ICD-10-PCS
0D5U3ZZ	Destruction of Omentum, Percutaneous Approach	PX	ICD-10-PCS
0D5U4ZZ	Destruction of Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5V0ZZ	Destruction of Mesentery, Open Approach	PX	ICD-10-PCS
0D5V3ZZ	Destruction of Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0D5V4ZZ	Destruction of Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D5W0ZZ	Destruction of Peritoneum, Open Approach	PX	ICD-10-PCS
0D5W3ZZ	Destruction of Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0D5W4ZZ	Destruction of Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D710DZ	Dilation of Upper Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D710ZZ	Dilation of Upper Esophagus, Open Approach	PX	ICD-10-PCS
0D713DZ	Dilation of Upper Esophagus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0D713ZZ	Dilation of Upper Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0D714DZ	Dilation of Upper Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D714ZZ	Dilation of Upper Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D720DZ	Dilation of Middle Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D720ZZ	Dilation of Middle Esophagus, Open Approach	PX	ICD-10-PCS
0D723DZ	Dilation of Middle Esophagus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0D723ZZ	Dilation of Middle Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0D724DZ	Dilation of Middle Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D724ZZ	Dilation of Middle Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D730DZ	Dilation of Lower Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D730ZZ	Dilation of Lower Esophagus, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D733DZ	Dilation of Lower Esophagus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0D733ZZ	Dilation of Lower Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0D734DZ	Dilation of Lower Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D734ZZ	Dilation of Lower Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D740DZ	Dilation of Esophagogastric Junction with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D740ZZ	Dilation of Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0D743DZ	Dilation of Esophagogastric Junction with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0D743ZZ	Dilation of Esophagogastric Junction, Percutaneous Approach	PX	ICD-10-PCS
0D744DZ	Dilation of Esophagogastric Junction with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D744ZZ	Dilation of Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D750DZ	Dilation of Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D750ZZ	Dilation of Esophagus, Open Approach	PX	ICD-10-PCS
0D753DZ	Dilation of Esophagus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0D753ZZ	Dilation of Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0D754DZ	Dilation of Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D754ZZ	Dilation of Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D760DZ	Dilation of Stomach with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D760ZZ	Dilation of Stomach, Open Approach	PX	ICD-10-PCS
0D763DZ	Dilation of Stomach with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0D763ZZ	Dilation of Stomach, Percutaneous Approach	PX	ICD-10-PCS
0D764DZ	Dilation of Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D764ZZ	Dilation of Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D770DZ	Dilation of Stomach, Pylorus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D770ZZ	Dilation of Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0D773DZ	Dilation of Stomach, Pylorus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0D773ZZ	Dilation of Stomach, Pylorus, Percutaneous Approach	PX	ICD-10-PCS
0D774DZ	Dilation of Stomach, Pylorus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D774ZZ	Dilation of Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D780DZ	Dilation of Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D780ZZ	Dilation of Small Intestine, Open Approach	PX	ICD-10-PCS
0D783ZZ	Dilation of Small Intestine, Percutaneous Approach	PX	ICD-10-PCS
0D784DZ	Dilation of Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D784ZZ	Dilation of Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D790DZ	Dilation of Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D790ZZ	Dilation of Duodenum, Open Approach	PX	ICD-10-PCS
0D793ZZ	Dilation of Duodenum, Percutaneous Approach	PX	ICD-10-PCS
0D794DZ	Dilation of Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D794ZZ	Dilation of Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7A0DZ	Dilation of Jejunum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7A0ZZ	Dilation of Jejunum, Open Approach	PX	ICD-10-PCS
0D7A3ZZ	Dilation of Jejunum, Percutaneous Approach	PX	ICD-10-PCS
0D7A4DZ	Dilation of Jejunum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7A4ZZ	Dilation of Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7B0DZ	Dilation of Ileum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7B0ZZ	Dilation of Ileum, Open Approach	PX	ICD-10-PCS
0D7B3ZZ	Dilation of Ileum, Percutaneous Approach	PX	ICD-10-PCS
0D7B4DZ	Dilation of Ileum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7B4ZZ	Dilation of Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7C0DZ	Dilation of Ileocecal Valve with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7C0ZZ	Dilation of Ileocecal Valve, Open Approach	PX	ICD-10-PCS
0D7C3ZZ	Dilation of Ileocecal Valve, Percutaneous Approach	PX	ICD-10-PCS
0D7C4DZ	Dilation of Ileocecal Valve with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7C4ZZ	Dilation of Ileocecal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7E0DZ	Dilation of Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7E0ZZ	Dilation of Large Intestine, Open Approach	PX	ICD-10-PCS
0D7E3ZZ	Dilation of Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0D7E4DZ	Dilation of Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7E4ZZ	Dilation of Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7F0DZ	Dilation of Right Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7F0ZZ	Dilation of Right Large Intestine, Open Approach	PX	ICD-10-PCS
0D7F3ZZ	Dilation of Right Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0D7F4DZ	Dilation of Right Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7F4ZZ	Dilation of Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7G0DZ	Dilation of Left Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7G0ZZ	Dilation of Left Large Intestine, Open Approach	PX	ICD-10-PCS
0D7G3ZZ	Dilation of Left Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0D7G4DZ	Dilation of Left Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7G4ZZ	Dilation of Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7H0DZ	Dilation of Cecum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7H0ZZ	Dilation of Cecum, Open Approach	PX	ICD-10-PCS
0D7H3ZZ	Dilation of Cecum, Percutaneous Approach	PX	ICD-10-PCS
0D7H4DZ	Dilation of Cecum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7H4ZZ	Dilation of Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7K0DZ	Dilation of Ascending Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7K0ZZ	Dilation of Ascending Colon, Open Approach	PX	ICD-10-PCS
0D7K3ZZ	Dilation of Ascending Colon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D7K4DZ	Dilation of Ascending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7K4ZZ	Dilation of Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7L0DZ	Dilation of Transverse Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7L0ZZ	Dilation of Transverse Colon, Open Approach	PX	ICD-10-PCS
0D7L3ZZ	Dilation of Transverse Colon, Percutaneous Approach	PX	ICD-10-PCS
0D7L4DZ	Dilation of Transverse Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7L4ZZ	Dilation of Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7M0DZ	Dilation of Descending Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7M0ZZ	Dilation of Descending Colon, Open Approach	PX	ICD-10-PCS
0D7M3ZZ	Dilation of Descending Colon, Percutaneous Approach	PX	ICD-10-PCS
0D7M4DZ	Dilation of Descending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7M4ZZ	Dilation of Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7N0DZ	Dilation of Sigmoid Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7N0ZZ	Dilation of Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D7N3ZZ	Dilation of Sigmoid Colon, Percutaneous Approach	PX	ICD-10-PCS
0D7N4DZ	Dilation of Sigmoid Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7N4ZZ	Dilation of Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7P0DZ	Dilation of Rectum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7P0ZZ	Dilation of Rectum, Open Approach	PX	ICD-10-PCS
0D7P3DZ	Dilation of Rectum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0D7P3ZZ	Dilation of Rectum, Percutaneous Approach	PX	ICD-10-PCS
0D7P4DZ	Dilation of Rectum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7P4ZZ	Dilation of Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7Q0DZ	Dilation of Anus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0D7Q0ZZ	Dilation of Anus, Open Approach	PX	ICD-10-PCS
0D7Q3DZ	Dilation of Anus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0D7Q3ZZ	Dilation of Anus, Percutaneous Approach	PX	ICD-10-PCS
0D7Q4DZ	Dilation of Anus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D7Q4ZZ	Dilation of Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D840ZZ	Division of Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0D843ZZ	Division of Esophagogastric Junction, Percutaneous Approach	PX	ICD-10-PCS
0D844ZZ	Division of Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D847ZZ	Division of Esophagogastric Junction, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D848ZZ	Division of Esophagogastric Junction, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0D870ZZ	Division of Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0D873ZZ	Division of Stomach, Pylorus, Percutaneous Approach	PX	ICD-10-PCS
0D874ZZ	Division of Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D877ZZ	Division of Stomach, Pylorus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0D878ZZ	Division of Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D8R0ZZ	Division of Anal Sphincter, Open Approach	PX	ICD-10-PCS
0D8R3ZZ	Division of Anal Sphincter, Percutaneous Approach	PX	ICD-10-PCS
0D9100Z	Drainage of Upper Esophagus with Drainage Device, Open Approach	PX	ICD-10-PCS
0D910ZZ	Drainage of Upper Esophagus, Open Approach	PX	ICD-10-PCS
0D9140Z	Drainage of Upper Esophagus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D914ZZ	Drainage of Upper Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9200Z	Drainage of Middle Esophagus with Drainage Device, Open Approach	PX	ICD-10-PCS
0D920ZZ	Drainage of Middle Esophagus, Open Approach	PX	ICD-10-PCS
0D9240Z	Drainage of Middle Esophagus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D924ZZ	Drainage of Middle Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9300Z	Drainage of Lower Esophagus with Drainage Device, Open Approach	PX	ICD-10-PCS
0D930ZZ	Drainage of Lower Esophagus, Open Approach	PX	ICD-10-PCS
0D9340Z	Drainage of Lower Esophagus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D934ZZ	Drainage of Lower Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9400Z	Drainage of Esophagogastric Junction with Drainage Device, Open Approach	PX	ICD-10-PCS
0D940ZZ	Drainage of Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0D9440Z	Drainage of Esophagogastric Junction with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D944ZZ	Drainage of Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9500Z	Drainage of Esophagus with Drainage Device, Open Approach	PX	ICD-10-PCS
0D950ZZ	Drainage of Esophagus, Open Approach	PX	ICD-10-PCS
0D9540Z	Drainage of Esophagus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D954ZZ	Drainage of Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9600Z	Drainage of Stomach with Drainage Device, Open Approach	PX	ICD-10-PCS
0D960ZZ	Drainage of Stomach, Open Approach	PX	ICD-10-PCS
0D9640Z	Drainage of Stomach with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D964ZZ	Drainage of Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9700Z	Drainage of Stomach, Pylorus with Drainage Device, Open Approach	PX	ICD-10-PCS
0D970ZZ	Drainage of Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0D9740Z	Drainage of Stomach, Pylorus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D974ZZ	Drainage of Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9800Z	Drainage of Small Intestine with Drainage Device, Open Approach	PX	ICD-10-PCS
0D980ZZ	Drainage of Small Intestine, Open Approach	PX	ICD-10-PCS
0D9840Z	Drainage of Small Intestine with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D984ZZ	Drainage of Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9900Z	Drainage of Duodenum with Drainage Device, Open Approach	PX	ICD-10-PCS
0D990ZZ	Drainage of Duodenum, Open Approach	PX	ICD-10-PCS
0D9940Z	Drainage of Duodenum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D994ZZ	Drainage of Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9A00Z	Drainage of Jejunum with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9A0ZZ	Drainage of Jejunum, Open Approach	PX	ICD-10-PCS
0D9A40Z	Drainage of Jejunum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9A4ZZ	Drainage of Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9B00Z	Drainage of Ileum with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9B0ZZ	Drainage of Ileum, Open Approach	PX	ICD-10-PCS
0D9B40Z	Drainage of Ileum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9B4ZZ	Drainage of Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9C00Z	Drainage of Ileocecal Valve with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9C0ZZ	Drainage of Ileocecal Valve, Open Approach	PX	ICD-10-PCS
0D9C40Z	Drainage of Ileocecal Valve with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9C4ZZ	Drainage of Ileocecal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9E00Z	Drainage of Large Intestine with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9E0ZZ	Drainage of Large Intestine, Open Approach	PX	ICD-10-PCS
0D9E40Z	Drainage of Large Intestine with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9E4ZZ	Drainage of Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9F00Z	Drainage of Right Large Intestine with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9F0ZZ	Drainage of Right Large Intestine, Open Approach	PX	ICD-10-PCS
0D9F40Z	Drainage of Right Large Intestine with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9F4ZZ	Drainage of Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9G00Z	Drainage of Left Large Intestine with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9G0ZZ	Drainage of Left Large Intestine, Open Approach	PX	ICD-10-PCS
0D9G40Z	Drainage of Left Large Intestine with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9G4ZZ	Drainage of Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9H00Z	Drainage of Cecum with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9H0ZZ	Drainage of Cecum, Open Approach	PX	ICD-10-PCS
0D9H40Z	Drainage of Cecum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9H4ZZ	Drainage of Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9J00Z	Drainage of Appendix with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9J0ZZ	Drainage of Appendix, Open Approach	PX	ICD-10-PCS
0D9J40Z	Drainage of Appendix with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9J4ZZ	Drainage of Appendix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9K00Z	Drainage of Ascending Colon with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9K0ZZ	Drainage of Ascending Colon, Open Approach	PX	ICD-10-PCS
0D9K40Z	Drainage of Ascending Colon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9K4ZZ	Drainage of Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9L00Z	Drainage of Transverse Colon with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9L0ZZ	Drainage of Transverse Colon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D9L40Z	Drainage of Transverse Colon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9L4ZZ	Drainage of Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9M00Z	Drainage of Descending Colon with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9M0ZZ	Drainage of Descending Colon, Open Approach	PX	ICD-10-PCS
0D9M40Z	Drainage of Descending Colon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9M4ZZ	Drainage of Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9N00Z	Drainage of Sigmoid Colon with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9N0ZZ	Drainage of Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0D9N40Z	Drainage of Sigmoid Colon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9N4ZZ	Drainage of Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9P00Z	Drainage of Rectum with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9P0ZZ	Drainage of Rectum, Open Approach	PX	ICD-10-PCS
0D9P40Z	Drainage of Rectum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9P4ZZ	Drainage of Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9Q00Z	Drainage of Anus with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9Q0ZZ	Drainage of Anus, Open Approach	PX	ICD-10-PCS
0D9Q40Z	Drainage of Anus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9Q4ZZ	Drainage of Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9QX0Z	Drainage of Anus with Drainage Device, External Approach	PX	ICD-10-PCS
0D9QXZZ	Drainage of Anus, External Approach	PX	ICD-10-PCS
0D9R00Z	Drainage of Anal Sphincter with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9R0ZZ	Drainage of Anal Sphincter, Open Approach	PX	ICD-10-PCS
0D9R40Z	Drainage of Anal Sphincter with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9R4ZZ	Drainage of Anal Sphincter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9S00Z	Drainage of Greater Omentum with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9S0ZZ	Drainage of Greater Omentum, Open Approach	PX	ICD-10-PCS
0D9T00Z	Drainage of Lesser Omentum with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9T0ZZ	Drainage of Lesser Omentum, Open Approach	PX	ICD-10-PCS
0D9U00Z	Drainage of Omentum with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9U0ZZ	Drainage of Omentum, Open Approach	PX	ICD-10-PCS
0D9U40Z	Drainage of Omentum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9U4ZZ	Drainage of Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9V00Z	Drainage of Mesentery with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9V0ZZ	Drainage of Mesentery, Open Approach	PX	ICD-10-PCS
0D9V40Z	Drainage of Mesentery with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9V4ZZ	Drainage of Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9W00Z	Drainage of Peritoneum with Drainage Device, Open Approach	PX	ICD-10-PCS
0D9W0ZZ	Drainage of Peritoneum, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D9W40Z	Drainage of Peritoneum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0D9W4ZZ	Drainage of Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DB10ZZ	Excision of Upper Esophagus, Open Approach	PX	ICD-10-PCS
0DB13ZZ	Excision of Upper Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DB14ZZ	Excision of Upper Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DB17ZZ	Excision of Upper Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DB20ZZ	Excision of Middle Esophagus, Open Approach	PX	ICD-10-PCS
0DB23ZZ	Excision of Middle Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DB24ZZ	Excision of Middle Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DB27ZZ	Excision of Middle Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DB30ZZ	Excision of Lower Esophagus, Open Approach	PX	ICD-10-PCS
0DB33ZZ	Excision of Lower Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DB34ZZ	Excision of Lower Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DB37ZZ	Excision of Lower Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DB40ZZ	Excision of Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0DB43ZZ	Excision of Esophagogastric Junction, Percutaneous Approach	PX	ICD-10-PCS
0DB44ZZ	Excision of Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DB47ZZ	Excision of Esophagogastric Junction, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DB50ZZ	Excision of Esophagus, Open Approach	PX	ICD-10-PCS
0DB53ZZ	Excision of Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DB54ZZ	Excision of Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DB57ZZ	Excision of Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DB60Z3	Excision of Stomach, Open Approach, Vertical	PX	ICD-10-PCS
0DB60ZZ	Excision of Stomach, Open Approach	PX	ICD-10-PCS
0DB63Z3	Excision of Stomach, Percutaneous Approach, Vertical	PX	ICD-10-PCS
0DB63ZZ	Excision of Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DB64Z3	Excision of Stomach, Percutaneous Endoscopic Approach, Vertical	PX	ICD-10-PCS
0DB64ZZ	Excision of Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DB67Z3	Excision of Stomach, Via Natural or Artificial Opening, Vertical	PX	ICD-10-PCS
0DB67ZZ	Excision of Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DB68Z3	Excision of Stomach, Via Natural or Artificial Opening Endoscopic, Vertical	PX	ICD-10-PCS
0DB70ZZ	Excision of Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0DB73ZZ	Excision of Stomach, Pylorus, Percutaneous Approach	PX	ICD-10-PCS
0DB74ZZ	Excision of Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DB77ZZ	Excision of Stomach, Pylorus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DB80ZZ	Excision of Small Intestine, Open Approach	PX	ICD-10-PCS
0DB83ZZ	Excision of Small Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DB84ZZ	Excision of Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DB87ZZ	Excision of Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DB88ZZ	Excision of Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DB90ZZ	Excision of Duodenum, Open Approach	PX	ICD-10-PCS
0DB93ZZ	Excision of Duodenum, Percutaneous Approach	PX	ICD-10-PCS
0DB94ZZ	Excision of Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DB97ZZ	Excision of Duodenum, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DBA0ZZ	Excision of Jejunum, Open Approach	PX	ICD-10-PCS
0DBA3ZZ	Excision of Jejunum, Percutaneous Approach	PX	ICD-10-PCS
0DBA4ZZ	Excision of Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBA7ZZ	Excision of Jejunum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBA8ZZ	Excision of Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DBB0ZZ	Excision of Ileum, Open Approach	PX	ICD-10-PCS
0DBB3ZZ	Excision of Ileum, Percutaneous Approach	PX	ICD-10-PCS
0DBB4ZZ	Excision of Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBB7ZZ	Excision of Ileum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBB8ZZ	Excision of Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DBC0ZZ	Excision of Ileocecal Valve, Open Approach	PX	ICD-10-PCS
0DBC3ZZ	Excision of Ileocecal Valve, Percutaneous Approach	PX	ICD-10-PCS
0DBC4ZZ	Excision of Ileocecal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBC7ZZ	Excision of Ileocecal Valve, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBC8ZZ	Excision of Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DBE0ZZ	Excision of Large Intestine, Open Approach	PX	ICD-10-PCS
0DBE3ZZ	Excision of Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DBE4ZZ	Excision of Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBE7ZZ	Excision of Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBF0ZZ	Excision of Right Large Intestine, Open Approach	PX	ICD-10-PCS
0DBF3ZZ	Excision of Right Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DBF4ZG	Excision of right large intestine, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DBF4ZZ	Excision of Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBF7ZZ	Excision of Right Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBG0ZZ	Excision of Left Large Intestine, Open Approach	PX	ICD-10-PCS
0DBG3ZZ	Excision of Left Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DBG4ZG	Excision of left large intestine, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DBG4ZZ	Excision of Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBG7ZZ	Excision of Left Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBGFZZ	Excision of Left Large Intestine, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0DBH0ZZ	Excision of Cecum, Open Approach	PX	ICD-10-PCS
0DBH3ZZ	Excision of Cecum, Percutaneous Approach	PX	ICD-10-PCS
0DBH4ZZ	Excision of Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBH7ZZ	Excision of Cecum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBJ0ZZ	Excision of Appendix, Open Approach	PX	ICD-10-PCS
0DBJ3ZZ	Excision of Appendix, Percutaneous Approach	PX	ICD-10-PCS
0DBJ4ZG	Excision of appendix, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DBJ4ZZ	Excision of Appendix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBJ7ZZ	Excision of Appendix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBJ8ZZ	Excision of Appendix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DBK0ZZ	Excision of Ascending Colon, Open Approach	PX	ICD-10-PCS
0DBK3ZZ	Excision of Ascending Colon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DBK4ZZ	Excision of Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBK7ZZ	Excision of Ascending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBL0ZZ	Excision of Transverse Colon, Open Approach	PX	ICD-10-PCS
0DBL3ZZ	Excision of Transverse Colon, Percutaneous Approach	PX	ICD-10-PCS
0DBL4ZG	Excision of transverse colon, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DBL4ZZ	Excision of Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBL7ZZ	Excision of Transverse Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBLFZZ	Excision of Transverse Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0DBM0ZZ	Excision of Descending Colon, Open Approach	PX	ICD-10-PCS
0DBM3ZZ	Excision of Descending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DBM4ZG	Excision of descending colon, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DBM4ZZ	Excision of Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBM7ZZ	Excision of Descending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBMFZZ	Excision of Descending Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0DBN0ZZ	Excision of Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0DBN3ZZ	Excision of Sigmoid Colon, Percutaneous Approach	PX	ICD-10-PCS
0DBN4ZG	Excision of sigmoid colon, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DBN4ZZ	Excision of Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBN7ZZ	Excision of Sigmoid Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBNFZZ	Excision of Sigmoid Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0DBP0ZZ	Excision of Rectum, Open Approach	PX	ICD-10-PCS
0DBP3ZZ	Excision of Rectum, Percutaneous Approach	PX	ICD-10-PCS
0DBP4ZZ	Excision of Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBP7ZZ	Excision of Rectum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBQ0ZZ	Excision of Anus, Open Approach	PX	ICD-10-PCS
0DBQ3ZZ	Excision of Anus, Percutaneous Approach	PX	ICD-10-PCS
0DBQ4ZZ	Excision of Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBQ7ZZ	Excision of Anus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DBQXZZ	Excision of Anus, External Approach	PX	ICD-10-PCS
0DBR0ZZ	Excision of Anal Sphincter, Open Approach	PX	ICD-10-PCS
0DBR3ZZ	Excision of Anal Sphincter, Percutaneous Approach	PX	ICD-10-PCS
0DBR4ZZ	Excision of Anal Sphincter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBS0ZZ	Excision of Greater Omentum, Open Approach	PX	ICD-10-PCS
0DBS3ZZ	Excision of Greater Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DBS4ZZ	Excision of Greater Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBT0ZZ	Excision of Lesser Omentum, Open Approach	PX	ICD-10-PCS
0DBT3ZZ	Excision of Lesser Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DBT4ZZ	Excision of Lesser Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBU0ZZ	Excision of Omentum, Open Approach	PX	ICD-10-PCS
0DBU3ZZ	Excision of Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DBU4ZZ	Excision of Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DBV0ZZ	Excision of Mesentery, Open Approach	PX	ICD-10-PCS
0DBV3ZZ	Excision of Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DBV4ZZ	Excision of Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DBW0ZZ	Excision of Peritoneum, Open Approach	PX	ICD-10-PCS
0DBW3ZZ	Excision of Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DBW4ZZ	Excision of Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DC10ZZ	Extirpation of Matter from Upper Esophagus, Open Approach	PX	ICD-10-PCS
0DC13ZZ	Extirpation of Matter from Upper Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DC14ZZ	Extirpation of Matter from Upper Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DC20ZZ	Extirpation of Matter from Middle Esophagus, Open Approach	PX	ICD-10-PCS
0DC23ZZ	Extirpation of Matter from Middle Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DC24ZZ	Extirpation of Matter from Middle Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DC30ZZ	Extirpation of Matter from Lower Esophagus, Open Approach	PX	ICD-10-PCS
0DC33ZZ	Extirpation of Matter from Lower Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DC34ZZ	Extirpation of Matter from Lower Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DC40ZZ	Extirpation of Matter from Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0DC43ZZ	Extirpation of Matter from Esophagogastric Junction, Percutaneous Approach	PX	ICD-10-PCS
0DC44ZZ	Extirpation of Matter from Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DC50ZZ	Extirpation of Matter from Esophagus, Open Approach	PX	ICD-10-PCS
0DC53ZZ	Extirpation of Matter from Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DC54ZZ	Extirpation of Matter from Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DC60ZZ	Extirpation of Matter from Stomach, Open Approach	PX	ICD-10-PCS
0DC63ZZ	Extirpation of Matter from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DC64ZZ	Extirpation of Matter from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DC70ZZ	Extirpation of Matter from Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0DC73ZZ	Extirpation of Matter from Stomach, Pylorus, Percutaneous Approach	PX	ICD-10-PCS
0DC74ZZ	Extirpation of Matter from Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DC80ZZ	Extirpation of Matter from Small Intestine, Open Approach	PX	ICD-10-PCS
0DC83ZZ	Extirpation of Matter from Small Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DC84ZZ	Extirpation of Matter from Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DC90ZZ	Extirpation of Matter from Duodenum, Open Approach	PX	ICD-10-PCS
0DC93ZZ	Extirpation of Matter from Duodenum, Percutaneous Approach	PX	ICD-10-PCS
0DC94ZZ	Extirpation of Matter from Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCA0ZZ	Extirpation of Matter from Jejunum, Open Approach	PX	ICD-10-PCS
0DCA3ZZ	Extirpation of Matter from Jejunum, Percutaneous Approach	PX	ICD-10-PCS
0DCA4ZZ	Extirpation of Matter from Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCB0ZZ	Extirpation of Matter from Ileum, Open Approach	PX	ICD-10-PCS
0DCB3ZZ	Extirpation of Matter from Ileum, Percutaneous Approach	PX	ICD-10-PCS
0DCB4ZZ	Extirpation of Matter from Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCC0ZZ	Extirpation of Matter from Ileocecal Valve, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DCC3ZZ	Extirpation of Matter from Ileocecal Valve, Percutaneous Approach	PX	ICD-10-PCS
0DCC4ZZ	Extirpation of Matter from Ileocecal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCE0ZZ	Extirpation of Matter from Large Intestine, Open Approach	PX	ICD-10-PCS
0DCE3ZZ	Extirpation of Matter from Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DCE4ZZ	Extirpation of Matter from Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCF0ZZ	Extirpation of Matter from Right Large Intestine, Open Approach	PX	ICD-10-PCS
0DCF3ZZ	Extirpation of Matter from Right Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DCF4ZZ	Extirpation of Matter from Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCG0ZZ	Extirpation of Matter from Left Large Intestine, Open Approach	PX	ICD-10-PCS
0DCG3ZZ	Extirpation of Matter from Left Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DCG4ZZ	Extirpation of Matter from Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCH0ZZ	Extirpation of Matter from Cecum, Open Approach	PX	ICD-10-PCS
0DCH3ZZ	Extirpation of Matter from Cecum, Percutaneous Approach	PX	ICD-10-PCS
0DCH4ZZ	Extirpation of Matter from Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCJ0ZZ	Extirpation of Matter from Appendix, Open Approach	PX	ICD-10-PCS
0DCJ4ZZ	Extirpation of Matter from Appendix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCK0ZZ	Extirpation of Matter from Ascending Colon, Open Approach	PX	ICD-10-PCS
0DCK3ZZ	Extirpation of Matter from Ascending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DCK4ZZ	Extirpation of Matter from Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCL0ZZ	Extirpation of Matter from Transverse Colon, Open Approach	PX	ICD-10-PCS
0DCL3ZZ	Extirpation of Matter from Transverse Colon, Percutaneous Approach	PX	ICD-10-PCS
0DCL4ZZ	Extirpation of Matter from Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCM0ZZ	Extirpation of Matter from Descending Colon, Open Approach	PX	ICD-10-PCS
0DCM3ZZ	Extirpation of Matter from Descending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DCM4ZZ	Extirpation of Matter from Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCN0ZZ	Extirpation of Matter from Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0DCN3ZZ	Extirpation of Matter from Sigmoid Colon, Percutaneous Approach	PX	ICD-10-PCS
0DCN4ZZ	Extirpation of Matter from Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCP0ZZ	Extirpation of Matter from Rectum, Open Approach	PX	ICD-10-PCS
0DCP3ZZ	Extirpation of Matter from Rectum, Percutaneous Approach	PX	ICD-10-PCS
0DCP4ZZ	Extirpation of Matter from Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCQ0ZZ	Extirpation of Matter from Anus, Open Approach	PX	ICD-10-PCS
0DCQ3ZZ	Extirpation of Matter from Anus, Percutaneous Approach	PX	ICD-10-PCS
0DCQ4ZZ	Extirpation of Matter from Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCR0ZZ	Extirpation of Matter from Anal Sphincter, Open Approach	PX	ICD-10-PCS
0DCR3ZZ	Extirpation of Matter from Anal Sphincter, Percutaneous Approach	PX	ICD-10-PCS
0DCR4ZZ	Extirpation of Matter from Anal Sphincter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCS0ZZ	Extirpation of Matter from Greater Omentum, Open Approach	PX	ICD-10-PCS
0DCS3ZZ	Extirpation of Matter from Greater Omentum, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DCS4ZZ	Extirpation of Matter from Greater Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCT0ZZ	Extirpation of Matter from Lesser Omentum, Open Approach	PX	ICD-10-PCS
0DCT3ZZ	Extirpation of Matter from Lesser Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DCT4ZZ	Extirpation of Matter from Lesser Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCU0ZZ	Extirpation of Matter from Omentum, Open Approach	PX	ICD-10-PCS
0DCU3ZZ	Extirpation of Matter from Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DCU4ZZ	Extirpation of Matter from Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCV0ZZ	Extirpation of Matter from Mesentery, Open Approach	PX	ICD-10-PCS
0DCV3ZZ	Extirpation of Matter from Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DCV4ZZ	Extirpation of Matter from Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DCW0ZZ	Extirpation of Matter from Peritoneum, Open Approach	PX	ICD-10-PCS
0DCW3ZZ	Extirpation of Matter from Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DCW4ZZ	Extirpation of Matter from Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DF50ZZ	Fragmentation in Esophagus, Open Approach	PX	ICD-10-PCS
0DF53ZZ	Fragmentation in Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DF54ZZ	Fragmentation in Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DF57ZZ	Fragmentation in Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DF58ZZ	Fragmentation in Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DF60ZZ	Fragmentation in Stomach, Open Approach	PX	ICD-10-PCS
0DF63ZZ	Fragmentation in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DF64ZZ	Fragmentation in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DF67ZZ	Fragmentation in Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DF68ZZ	Fragmentation in Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DF80ZZ	Fragmentation in Small Intestine, Open Approach	PX	ICD-10-PCS
0DF83ZZ	Fragmentation in Small Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DF84ZZ	Fragmentation in Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DF87ZZ	Fragmentation in Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DF88ZZ	Fragmentation in Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DF90ZZ	Fragmentation in Duodenum, Open Approach	PX	ICD-10-PCS
0DF93ZZ	Fragmentation in Duodenum, Percutaneous Approach	PX	ICD-10-PCS
0DF94ZZ	Fragmentation in Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DF97ZZ	Fragmentation in Duodenum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DF98ZZ	Fragmentation in Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFA0ZZ	Fragmentation in Jejunum, Open Approach	PX	ICD-10-PCS
0DFA3ZZ	Fragmentation in Jejunum, Percutaneous Approach	PX	ICD-10-PCS
0DFA4ZZ	Fragmentation in Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFA7ZZ	Fragmentation in Jejunum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFA8ZZ	Fragmentation in Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFB0ZZ	Fragmentation in Ileum, Open Approach	PX	ICD-10-PCS
0DFB3ZZ	Fragmentation in Ileum, Percutaneous Approach	PX	ICD-10-PCS
0DFB4ZZ	Fragmentation in Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFB7ZZ	Fragmentation in Ileum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFB8ZZ	Fragmentation in Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DFE0ZZ	Fragmentation in Large Intestine, Open Approach	PX	ICD-10-PCS
0DFE3ZZ	Fragmentation in Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DFE4ZZ	Fragmentation in Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFE7ZZ	Fragmentation in Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFE8ZZ	Fragmentation in Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFF0ZZ	Fragmentation in Right Large Intestine, Open Approach	PX	ICD-10-PCS
0DFF3ZZ	Fragmentation in Right Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DFF4ZZ	Fragmentation in Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFF7ZZ	Fragmentation in Right Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFF8ZZ	Fragmentation in Right Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFG0ZZ	Fragmentation in Left Large Intestine, Open Approach	PX	ICD-10-PCS
0DFG3ZZ	Fragmentation in Left Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DFG4ZZ	Fragmentation in Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFG7ZZ	Fragmentation in Left Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFG8ZZ	Fragmentation in Left Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFH0ZZ	Fragmentation in Cecum, Open Approach	PX	ICD-10-PCS
0DFH3ZZ	Fragmentation in Cecum, Percutaneous Approach	PX	ICD-10-PCS
0DFH4ZZ	Fragmentation in Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFH7ZZ	Fragmentation in Cecum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFH8ZZ	Fragmentation in Cecum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFJ0ZZ	Fragmentation in Appendix, Open Approach	PX	ICD-10-PCS
0DFJ3ZZ	Fragmentation in Appendix, Percutaneous Approach	PX	ICD-10-PCS
0DFJ4ZZ	Fragmentation in Appendix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFJ7ZZ	Fragmentation in Appendix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFJ8ZZ	Fragmentation in Appendix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFK0ZZ	Fragmentation in Ascending Colon, Open Approach	PX	ICD-10-PCS
0DFK3ZZ	Fragmentation in Ascending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DFK4ZZ	Fragmentation in Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFK7ZZ	Fragmentation in Ascending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFK8ZZ	Fragmentation in Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFL0ZZ	Fragmentation in Transverse Colon, Open Approach	PX	ICD-10-PCS
0DFL3ZZ	Fragmentation in Transverse Colon, Percutaneous Approach	PX	ICD-10-PCS
0DFL4ZZ	Fragmentation in Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFL7ZZ	Fragmentation in Transverse Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFL8ZZ	Fragmentation in Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFM0ZZ	Fragmentation in Descending Colon, Open Approach	PX	ICD-10-PCS
0DFM3ZZ	Fragmentation in Descending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DFM4ZZ	Fragmentation in Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFM7ZZ	Fragmentation in Descending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFM8ZZ	Fragmentation in Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFN0ZZ	Fragmentation in Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0DFN3ZZ	Fragmentation in Sigmoid Colon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DFN4ZZ	Fragmentation in Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFN7ZZ	Fragmentation in Sigmoid Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFN8ZZ	Fragmentation in Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFP0ZZ	Fragmentation in Rectum, Open Approach	PX	ICD-10-PCS
0DFP3ZZ	Fragmentation in Rectum, Percutaneous Approach	PX	ICD-10-PCS
0DFP4ZZ	Fragmentation in Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFP7ZZ	Fragmentation in Rectum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFP8ZZ	Fragmentation in Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DFQ0ZZ	Fragmentation in Anus, Open Approach	PX	ICD-10-PCS
0DFQ3ZZ	Fragmentation in Anus, Percutaneous Approach	PX	ICD-10-PCS
0DFQ4ZZ	Fragmentation in Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DFQ7ZZ	Fragmentation in Anus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DFQ8ZZ	Fragmentation in Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DH00YZ	Insertion of Other Device into Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DH04YZ	Insertion of Other Device into Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH501Z	Insertion of Radioactive Element into Esophagus, Open Approach	PX	ICD-10-PCS
0DH503Z	Insertion of Infusion Device into Esophagus, Open Approach	PX	ICD-10-PCS
0DH50DZ	Insertion of Intraluminal Device into Esophagus, Open Approach	PX	ICD-10-PCS
0DH50UZ	Insertion of Feeding Device into Esophagus, Open Approach	PX	ICD-10-PCS
0DH50YZ	Insertion of Other Device into Esophagus, Open Approach	PX	ICD-10-PCS
0DH533Z	Insertion of Infusion Device into Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DH541Z	Insertion of Radioactive Element into Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH543Z	Insertion of Infusion Device into Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH54DZ	Insertion of Intraluminal Device into Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH54YZ	Insertion of Other Device into Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH601Z	Insertion of Radioactive Element into Stomach, Open Approach	PX	ICD-10-PCS
0DH603Z	Insertion of Infusion Device into Stomach, Open Approach	PX	ICD-10-PCS
0DH60DZ	Insertion of Intraluminal Device into Stomach, Open Approach	PX	ICD-10-PCS
0DH60MZ	Insertion of Stimulator Lead into Stomach, Open Approach	PX	ICD-10-PCS
0DH60UZ	Insertion of Feeding Device into Stomach, Open Approach	PX	ICD-10-PCS
0DH60YZ	Insertion of Other Device into Stomach, Open Approach	PX	ICD-10-PCS
0DH633Z	Insertion of Infusion Device into Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DH63DZ	Insertion of Intraluminal Device into Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DH63MZ	Insertion of Stimulator Lead into Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DH641Z	Insertion of Radioactive Element into Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH643Z	Insertion of Infusion Device into Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH64DZ	Insertion of Intraluminal Device into Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH64MZ	Insertion of Stimulator Lead into Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH64YZ	Insertion of Other Device into Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH801Z	Insertion of Radioactive Element into Small Intestine, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DH803Z	Insertion of Infusion Device into Small Intestine, Open Approach	PX	ICD-10-PCS
0DH80DZ	Insertion of Intraluminal Device into Small Intestine, Open Approach	PX	ICD-10-PCS
0DH80UZ	Insertion of Feeding Device into Small Intestine, Open Approach	PX	ICD-10-PCS
0DH833Z	Insertion of Infusion Device into Small Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DH841Z	Insertion of Radioactive Element into Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH843Z	Insertion of Infusion Device into Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH84DZ	Insertion of Intraluminal Device into Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH901Z	Insertion of Radioactive Element into Duodenum, Open Approach	PX	ICD-10-PCS
0DH903Z	Insertion of Infusion Device into Duodenum, Open Approach	PX	ICD-10-PCS
0DH90DZ	Insertion of Intraluminal Device into Duodenum, Open Approach	PX	ICD-10-PCS
0DH90UZ	Insertion of Feeding Device into Duodenum, Open Approach	PX	ICD-10-PCS
0DH933Z	Insertion of Infusion Device into Duodenum, Percutaneous Approach	PX	ICD-10-PCS
0DH941Z	Insertion of Radioactive Element into Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH943Z	Insertion of Infusion Device into Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DH94DZ	Insertion of Intraluminal Device into Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHA01Z	Insertion of Radioactive Element into Jejunum, Open Approach	PX	ICD-10-PCS
0DHA03Z	Insertion of Infusion Device into Jejunum, Open Approach	PX	ICD-10-PCS
0DHA0DZ	Insertion of Intraluminal Device into Jejunum, Open Approach	PX	ICD-10-PCS
0DHA0UZ	Insertion of Feeding Device into Jejunum, Open Approach	PX	ICD-10-PCS
0DHA33Z	Insertion of Infusion Device into Jejunum, Percutaneous Approach	PX	ICD-10-PCS
0DHA41Z	Insertion of Radioactive Element into Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHA43Z	Insertion of Infusion Device into Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHA4DZ	Insertion of Intraluminal Device into Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHB01Z	Insertion of Radioactive Element into Ileum, Open Approach	PX	ICD-10-PCS
0DHB03Z	Insertion of Infusion Device into Ileum, Open Approach	PX	ICD-10-PCS
0DHB0DZ	Insertion of Intraluminal Device into Ileum, Open Approach	PX	ICD-10-PCS
0DHB0UZ	Insertion of Feeding Device into Ileum, Open Approach	PX	ICD-10-PCS
0DHB33Z	Insertion of Infusion Device into Ileum, Percutaneous Approach	PX	ICD-10-PCS
0DHB41Z	Insertion of Radioactive Element into Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHB43Z	Insertion of Infusion Device into Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHB4DZ	Insertion of Intraluminal Device into Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHD0YZ	Insertion of Other Device into Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DHD4YZ	Insertion of Other Device into Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHE01Z	Insertion of Radioactive Element into Large Intestine, Open Approach	PX	ICD-10-PCS
0DHE0DZ	Insertion of Intraluminal Device into Large Intestine, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DHE41Z	Insertion of Radioactive Element into Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHE4DZ	Insertion of Intraluminal Device into Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHP01Z	Insertion of Radioactive Element into Rectum, Open Approach	PX	ICD-10-PCS
0DHP0DZ	Insertion of Intraluminal Device into Rectum, Open Approach	PX	ICD-10-PCS
0DHP41Z	Insertion of Radioactive Element into Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHP4DZ	Insertion of Intraluminal Device into Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHQ0DZ	Insertion of Intraluminal Device into Anus, Open Approach	PX	ICD-10-PCS
0DHQ0LZ	Insertion of Artificial Sphincter into Anus, Open Approach	PX	ICD-10-PCS
0DHQ3DZ	Insertion of Intraluminal Device into Anus, Percutaneous Approach	PX	ICD-10-PCS
0DHQ3LZ	Insertion of Artificial Sphincter into Anus, Percutaneous Approach	PX	ICD-10-PCS
0DHQ4DZ	Insertion of Intraluminal Device into Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHQ4LZ	Insertion of Artificial Sphincter into Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DHR0MZ	Insertion of Stimulator Lead into Anal Sphincter, Open Approach	PX	ICD-10-PCS
0DHR3MZ	Insertion of Stimulator Lead into Anal Sphincter, Percutaneous Approach	PX	ICD-10-PCS
0DHR4MZ	Insertion of Stimulator Lead into Anal Sphincter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL10CZ	Occlusion of Upper Esophagus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DL10DZ	Occlusion of Upper Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DL10ZZ	Occlusion of Upper Esophagus, Open Approach	PX	ICD-10-PCS
0DL14CZ	Occlusion of Upper Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL14DZ	Occlusion of Upper Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL14ZZ	Occlusion of Upper Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL20CZ	Occlusion of Middle Esophagus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DL20DZ	Occlusion of Middle Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DL20ZZ	Occlusion of Middle Esophagus, Open Approach	PX	ICD-10-PCS
0DL24CZ	Occlusion of Middle Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL24DZ	Occlusion of Middle Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL24ZZ	Occlusion of Middle Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL30CZ	Occlusion of Lower Esophagus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DL30DZ	Occlusion of Lower Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DL30ZZ	Occlusion of Lower Esophagus, Open Approach	PX	ICD-10-PCS
0DL34CZ	Occlusion of Lower Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL34DZ	Occlusion of Lower Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL34ZZ	Occlusion of Lower Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL40CZ	Occlusion of Esophagogastric Junction with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DL40DZ	Occlusion of Esophagogastric Junction with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DL40ZZ	Occlusion of Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0DL44CZ	Occlusion of Esophagogastric Junction with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL44DZ	Occlusion of Esophagogastric Junction with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL44ZZ	Occlusion of Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL50CZ	Occlusion of Esophagus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DL50DZ	Occlusion of Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DL50ZZ	Occlusion of Esophagus, Open Approach	PX	ICD-10-PCS
0DL54CZ	Occlusion of Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL54DZ	Occlusion of Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL54ZZ	Occlusion of Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL60CZ	Occlusion of Stomach with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DL60DZ	Occlusion of Stomach with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DL60ZZ	Occlusion of Stomach, Open Approach	PX	ICD-10-PCS
0DL63CZ	Occlusion of Stomach with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DL63DZ	Occlusion of Stomach with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DL63ZZ	Occlusion of Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DL64CZ	Occlusion of Stomach with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL64DZ	Occlusion of Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL64ZZ	Occlusion of Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL67DZ	Occlusion of Stomach with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DL67ZZ	Occlusion of Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DL68DZ	Occlusion of Stomach with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DL68ZZ	Occlusion of Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DL70CZ	Occlusion of Stomach, Pylorus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DL70DZ	Occlusion of Stomach, Pylorus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DL70ZZ	Occlusion of Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0DL73CZ	Occlusion of Stomach, Pylorus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DL73DZ	Occlusion of Stomach, Pylorus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DL73ZZ	Occlusion of Stomach, Pylorus, Percutaneous Approach	PX	ICD-10-PCS
0DL74CZ	Occlusion of Stomach, Pylorus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL74DZ	Occlusion of Stomach, Pylorus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL74ZZ	Occlusion of Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL77DZ	Occlusion of Stomach, Pylorus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DL77ZZ	Occlusion of Stomach, Pylorus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DL78DZ	Occlusion of Stomach, Pylorus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DL78ZZ	Occlusion of Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DL80CZ	Occlusion of Small Intestine with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DL80DZ	Occlusion of Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DL80ZZ	Occlusion of Small Intestine, Open Approach	PX	ICD-10-PCS
0DL83CZ	Occlusion of Small Intestine with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DL83DZ	Occlusion of Small Intestine with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DL83ZZ	Occlusion of Small Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DL84CZ	Occlusion of Small Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL84DZ	Occlusion of Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL84ZZ	Occlusion of Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL87DZ	Occlusion of Small Intestine with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DL87ZZ	Occlusion of Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DL88DZ	Occlusion of Small Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DL88ZZ	Occlusion of Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DL90CZ	Occlusion of Duodenum with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DL90DZ	Occlusion of Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DL90ZZ	Occlusion of Duodenum, Open Approach	PX	ICD-10-PCS
0DL93CZ	Occlusion of Duodenum with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DL93DZ	Occlusion of Duodenum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DL93ZZ	Occlusion of Duodenum, Percutaneous Approach	PX	ICD-10-PCS
0DL94CZ	Occlusion of Duodenum with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL94DZ	Occlusion of Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL94ZZ	Occlusion of Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DL97DZ	Occlusion of Duodenum with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DL97ZZ	Occlusion of Duodenum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DL98DZ	Occlusion of Duodenum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DL98ZZ	Occlusion of Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLA0CZ	Occlusion of Jejunum with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLA0DZ	Occlusion of Jejunum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLA0ZZ	Occlusion of Jejunum, Open Approach	PX	ICD-10-PCS
0DLA3CZ	Occlusion of Jejunum with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLA3DZ	Occlusion of Jejunum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLA3ZZ	Occlusion of Jejunum, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DLA4CZ	Occlusion of Jejunum with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLA4DZ	Occlusion of Jejunum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLA4ZZ	Occlusion of Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLA7DZ	Occlusion of Jejunum with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLA7ZZ	Occlusion of Jejunum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLA8DZ	Occlusion of Jejunum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLA8ZZ	Occlusion of Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLB0CZ	Occlusion of Ileum with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLB0DZ	Occlusion of Ileum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLB0ZZ	Occlusion of Ileum, Open Approach	PX	ICD-10-PCS
0DLB3CZ	Occlusion of Ileum with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLB3DZ	Occlusion of Ileum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLB3ZZ	Occlusion of Ileum, Percutaneous Approach	PX	ICD-10-PCS
0DLB4CZ	Occlusion of Ileum with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLB4DZ	Occlusion of Ileum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLB4ZZ	Occlusion of Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLB7DZ	Occlusion of Ileum with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLB7ZZ	Occlusion of Ileum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLB8DZ	Occlusion of Ileum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLB8ZZ	Occlusion of Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLC0CZ	Occlusion of Ileocecal Valve with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLC0DZ	Occlusion of Ileocecal Valve with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLC0ZZ	Occlusion of Ileocecal Valve, Open Approach	PX	ICD-10-PCS
0DLC3CZ	Occlusion of Ileocecal Valve with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLC3DZ	Occlusion of Ileocecal Valve with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLC3ZZ	Occlusion of Ileocecal Valve, Percutaneous Approach	PX	ICD-10-PCS
0DLC4CZ	Occlusion of Ileocecal Valve with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLC4DZ	Occlusion of Ileocecal Valve with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLC4ZZ	Occlusion of Ileocecal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLC7DZ	Occlusion of Ileocecal Valve with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLC7ZZ	Occlusion of Ileocecal Valve, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLC8DZ	Occlusion of Ileocecal Valve with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLC8ZZ	Occlusion of Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLE0CZ	Occlusion of Large Intestine with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLE0DZ	Occlusion of Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DLE0ZZ	Occlusion of Large Intestine, Open Approach	PX	ICD-10-PCS
0DLE3CZ	Occlusion of Large Intestine with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLE3DZ	Occlusion of Large Intestine with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLE3ZZ	Occlusion of Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DLE4CZ	Occlusion of Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLE4DZ	Occlusion of Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLE4ZZ	Occlusion of Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLE7DZ	Occlusion of Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLE7ZZ	Occlusion of Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLE8DZ	Occlusion of Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLE8ZZ	Occlusion of Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLF0CZ	Occlusion of Right Large Intestine with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLF0DZ	Occlusion of Right Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLF0ZZ	Occlusion of Right Large Intestine, Open Approach	PX	ICD-10-PCS
0DLF3CZ	Occlusion of Right Large Intestine with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLF3DZ	Occlusion of Right Large Intestine with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLF3ZZ	Occlusion of Right Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DLF4CZ	Occlusion of Right Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLF4DZ	Occlusion of Right Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLF4ZZ	Occlusion of Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLF7DZ	Occlusion of Right Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLF7ZZ	Occlusion of Right Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLF8DZ	Occlusion of Right Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLF8ZZ	Occlusion of Right Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLG0CZ	Occlusion of Left Large Intestine with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLG0DZ	Occlusion of Left Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLG0ZZ	Occlusion of Left Large Intestine, Open Approach	PX	ICD-10-PCS
0DLG3CZ	Occlusion of Left Large Intestine with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLG3DZ	Occlusion of Left Large Intestine with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLG3ZZ	Occlusion of Left Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DLG4CZ	Occlusion of Left Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DLG4DZ	Occlusion of Left Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLG4ZZ	Occlusion of Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLG7DZ	Occlusion of Left Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLG7ZZ	Occlusion of Left Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLG8DZ	Occlusion of Left Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLG8ZZ	Occlusion of Left Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLH0CZ	Occlusion of Cecum with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLH0DZ	Occlusion of Cecum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLH0ZZ	Occlusion of Cecum, Open Approach	PX	ICD-10-PCS
0DLH3CZ	Occlusion of Cecum with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLH3DZ	Occlusion of Cecum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLH3ZZ	Occlusion of Cecum, Percutaneous Approach	PX	ICD-10-PCS
0DLH4CZ	Occlusion of Cecum with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLH4DZ	Occlusion of Cecum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLH4ZZ	Occlusion of Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLH7DZ	Occlusion of Cecum with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLH7ZZ	Occlusion of Cecum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLH8DZ	Occlusion of Cecum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLH8ZZ	Occlusion of Cecum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLK0CZ	Occlusion of Ascending Colon with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLK0DZ	Occlusion of Ascending Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLK0ZZ	Occlusion of Ascending Colon, Open Approach	PX	ICD-10-PCS
0DLK3CZ	Occlusion of Ascending Colon with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLK3DZ	Occlusion of Ascending Colon with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLK3ZZ	Occlusion of Ascending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DLK4CZ	Occlusion of Ascending Colon with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLK4DZ	Occlusion of Ascending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLK4ZZ	Occlusion of Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLK7DZ	Occlusion of Ascending Colon with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLK7ZZ	Occlusion of Ascending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLK8DZ	Occlusion of Ascending Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLK8ZZ	Occlusion of Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLL0CZ	Occlusion of Transverse Colon with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLL0DZ	Occlusion of Transverse Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLL0ZZ	Occlusion of Transverse Colon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DLL3CZ	Occlusion of Transverse Colon with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLL3DZ	Occlusion of Transverse Colon with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLL3ZZ	Occlusion of Transverse Colon, Percutaneous Approach	PX	ICD-10-PCS
0DLL4CZ	Occlusion of Transverse Colon with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLL4DZ	Occlusion of Transverse Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLL4ZZ	Occlusion of Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLL7DZ	Occlusion of Transverse Colon with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLL7ZZ	Occlusion of Transverse Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLL8DZ	Occlusion of Transverse Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLL8ZZ	Occlusion of Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLM0CZ	Occlusion of Descending Colon with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLM0DZ	Occlusion of Descending Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLM0ZZ	Occlusion of Descending Colon, Open Approach	PX	ICD-10-PCS
0DLM3CZ	Occlusion of Descending Colon with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLM3DZ	Occlusion of Descending Colon with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLM3ZZ	Occlusion of Descending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DLM4CZ	Occlusion of Descending Colon with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLM4DZ	Occlusion of Descending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLM4ZZ	Occlusion of Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLM7DZ	Occlusion of Descending Colon with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLM7ZZ	Occlusion of Descending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLM8DZ	Occlusion of Descending Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLM8ZZ	Occlusion of Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLN0CZ	Occlusion of Sigmoid Colon with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLN0DZ	Occlusion of Sigmoid Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLN0ZZ	Occlusion of Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0DLN3CZ	Occlusion of Sigmoid Colon with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLN3DZ	Occlusion of Sigmoid Colon with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLN3ZZ	Occlusion of Sigmoid Colon, Percutaneous Approach	PX	ICD-10-PCS
0DLN4CZ	Occlusion of Sigmoid Colon with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLN4DZ	Occlusion of Sigmoid Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLN4ZZ	Occlusion of Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DLN7DZ	Occlusion of Sigmoid Colon with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLN7ZZ	Occlusion of Sigmoid Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLN8DZ	Occlusion of Sigmoid Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLN8ZZ	Occlusion of Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLP0CZ	Occlusion of Rectum with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLP0DZ	Occlusion of Rectum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLP0ZZ	Occlusion of Rectum, Open Approach	PX	ICD-10-PCS
0DLP3CZ	Occlusion of Rectum with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLP3DZ	Occlusion of Rectum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLP3ZZ	Occlusion of Rectum, Percutaneous Approach	PX	ICD-10-PCS
0DLP4CZ	Occlusion of Rectum with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLP4DZ	Occlusion of Rectum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLP4ZZ	Occlusion of Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLP7DZ	Occlusion of Rectum with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLP7ZZ	Occlusion of Rectum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLP8DZ	Occlusion of Rectum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLP8ZZ	Occlusion of Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLQ0CZ	Occlusion of Anus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DLQ0DZ	Occlusion of Anus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DLQ0ZZ	Occlusion of Anus, Open Approach	PX	ICD-10-PCS
0DLQ3CZ	Occlusion of Anus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLQ3DZ	Occlusion of Anus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DLQ3ZZ	Occlusion of Anus, Percutaneous Approach	PX	ICD-10-PCS
0DLQ4CZ	Occlusion of Anus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLQ4DZ	Occlusion of Anus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLQ4ZZ	Occlusion of Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DLQ7DZ	Occlusion of Anus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLQ7ZZ	Occlusion of Anus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DLQ8DZ	Occlusion of Anus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLQ8ZZ	Occlusion of Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DLQXCZ	Occlusion of Anus with Extraluminal Device, External Approach	PX	ICD-10-PCS
0DLQXDZ	Occlusion of Anus with Intraluminal Device, External Approach	PX	ICD-10-PCS
0DLQXZZ	Occlusion of Anus, External Approach	PX	ICD-10-PCS
0DM50ZZ	Reattachment of Esophagus, Open Approach	PX	ICD-10-PCS
0DM54ZZ	Reattachment of Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DM60ZZ	Reattachment of Stomach, Open Approach	PX	ICD-10-PCS
0DM64ZZ	Reattachment of Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DM80ZZ	Reattachment of Small Intestine, Open Approach	PX	ICD-10-PCS
0DM84ZZ	Reattachment of Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DM90ZZ	Reattachment of Duodenum, Open Approach	PX	ICD-10-PCS
0DM94ZZ	Reattachment of Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DMA0ZZ	Reattachment of Jejunum, Open Approach	PX	ICD-10-PCS
0DMA4ZZ	Reattachment of Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DMB0ZZ	Reattachment of Ileum, Open Approach	PX	ICD-10-PCS
0DMB4ZZ	Reattachment of Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DME0ZZ	Reattachment of Large Intestine, Open Approach	PX	ICD-10-PCS
0DME4ZZ	Reattachment of Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DMF0ZZ	Reattachment of Right Large Intestine, Open Approach	PX	ICD-10-PCS
0DMF4ZZ	Reattachment of Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DMG0ZZ	Reattachment of Left Large Intestine, Open Approach	PX	ICD-10-PCS
0DMG4ZZ	Reattachment of Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DMH0ZZ	Reattachment of Cecum, Open Approach	PX	ICD-10-PCS
0DMH4ZZ	Reattachment of Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DMK0ZZ	Reattachment of Ascending Colon, Open Approach	PX	ICD-10-PCS
0DMK4ZZ	Reattachment of Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DML0ZZ	Reattachment of Transverse Colon, Open Approach	PX	ICD-10-PCS
0DML4ZZ	Reattachment of Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DMM0ZZ	Reattachment of Descending Colon, Open Approach	PX	ICD-10-PCS
0DMM4ZZ	Reattachment of Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DMN0ZZ	Reattachment of Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0DMN4ZZ	Reattachment of Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DMP0ZZ	Reattachment of Rectum, Open Approach	PX	ICD-10-PCS
0DMP4ZZ	Reattachment of Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DN10ZZ	Release Upper Esophagus, Open Approach	PX	ICD-10-PCS
0DN13ZZ	Release Upper Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DN14ZZ	Release Upper Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DN17ZZ	Release Upper Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DN18ZZ	Release Upper Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DN20ZZ	Release Middle Esophagus, Open Approach	PX	ICD-10-PCS
0DN23ZZ	Release Middle Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DN24ZZ	Release Middle Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DN27ZZ	Release Middle Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DN28ZZ	Release Middle Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DN30ZZ	Release Lower Esophagus, Open Approach	PX	ICD-10-PCS
0DN33ZZ	Release Lower Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DN34ZZ	Release Lower Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DN37ZZ	Release Lower Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DN38ZZ	Release Lower Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DN40ZZ	Release Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0DN43ZZ	Release Esophagogastric Junction, Percutaneous Approach	PX	ICD-10-PCS
0DN44ZZ	Release Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DN47ZZ	Release Esophagogastric Junction, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DN48ZZ	Release Esophagogastric Junction, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DN50ZZ	Release Esophagus, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DN53ZZ	Release Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DN54ZZ	Release Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DN57ZZ	Release Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DN58ZZ	Release Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DN60ZZ	Release Stomach, Open Approach	PX	ICD-10-PCS
0DN63ZZ	Release Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DN64ZZ	Release Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DN67ZZ	Release Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DN68ZZ	Release Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DN70ZZ	Release Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0DN73ZZ	Release Stomach, Pylorus, Percutaneous Approach	PX	ICD-10-PCS
0DN74ZZ	Release Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DN77ZZ	Release Stomach, Pylorus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DN78ZZ	Release Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DN80ZZ	Release Small Intestine, Open Approach	PX	ICD-10-PCS
0DN83ZZ	Release Small Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DN84ZZ	Release Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DN90ZZ	Release Duodenum, Open Approach	PX	ICD-10-PCS
0DN93ZZ	Release Duodenum, Percutaneous Approach	PX	ICD-10-PCS
0DN94ZZ	Release Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNA0ZZ	Release Jejunum, Open Approach	PX	ICD-10-PCS
0DNA3ZZ	Release Jejunum, Percutaneous Approach	PX	ICD-10-PCS
0DNA4ZZ	Release Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNB0ZZ	Release Ileum, Open Approach	PX	ICD-10-PCS
0DNB3ZZ	Release Ileum, Percutaneous Approach	PX	ICD-10-PCS
0DNB4ZZ	Release Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNC0ZZ	Release Ileocecal Valve, Open Approach	PX	ICD-10-PCS
0DNC3ZZ	Release Ileocecal Valve, Percutaneous Approach	PX	ICD-10-PCS
0DNC4ZZ	Release Ileocecal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNC7ZZ	Release Ileocecal Valve, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DNC8ZZ	Release Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DNE0ZZ	Release Large Intestine, Open Approach	PX	ICD-10-PCS
0DNE3ZZ	Release Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DNE4ZZ	Release Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNF0ZZ	Release Right Large Intestine, Open Approach	PX	ICD-10-PCS
0DNF3ZZ	Release Right Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DNF4ZZ	Release Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNG0ZZ	Release Left Large Intestine, Open Approach	PX	ICD-10-PCS
0DNG3ZZ	Release Left Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DNG4ZZ	Release Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNH0ZZ	Release Cecum, Open Approach	PX	ICD-10-PCS
0DNH3ZZ	Release Cecum, Percutaneous Approach	PX	ICD-10-PCS
0DNH4ZZ	Release Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNJ0ZZ	Release Appendix, Open Approach	PX	ICD-10-PCS
0DNJ3ZZ	Release Appendix, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DNJ4ZZ	Release Appendix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNJ7ZZ	Release Appendix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DNJ8ZZ	Release Appendix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DNK0ZZ	Release Ascending Colon, Open Approach	PX	ICD-10-PCS
0DNK3ZZ	Release Ascending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DNK4ZZ	Release Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNL0ZZ	Release Transverse Colon, Open Approach	PX	ICD-10-PCS
0DNL3ZZ	Release Transverse Colon, Percutaneous Approach	PX	ICD-10-PCS
0DNL4ZZ	Release Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNM0ZZ	Release Descending Colon, Open Approach	PX	ICD-10-PCS
0DNM3ZZ	Release Descending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DNM4ZZ	Release Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNN0ZZ	Release Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0DNN3ZZ	Release Sigmoid Colon, Percutaneous Approach	PX	ICD-10-PCS
0DNN4ZZ	Release Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNP0ZZ	Release Rectum, Open Approach	PX	ICD-10-PCS
0DNP3ZZ	Release Rectum, Percutaneous Approach	PX	ICD-10-PCS
0DNP4ZZ	Release Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNP7ZZ	Release Rectum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DNP8ZZ	Release Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DNQ0ZZ	Release Anus, Open Approach	PX	ICD-10-PCS
0DNQ3ZZ	Release Anus, Percutaneous Approach	PX	ICD-10-PCS
0DNQ4ZZ	Release Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNQ7ZZ	Release Anus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DNQ8ZZ	Release Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DNQXZZ	Release Anus, External Approach	PX	ICD-10-PCS
0DNR0ZZ	Release Anal Sphincter, Open Approach	PX	ICD-10-PCS
0DNR3ZZ	Release Anal Sphincter, Percutaneous Approach	PX	ICD-10-PCS
0DNR4ZZ	Release Anal Sphincter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNS0ZZ	Release Greater Omentum, Open Approach	PX	ICD-10-PCS
0DNS3ZZ	Release Greater Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DNS4ZZ	Release Greater Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNT0ZZ	Release Lesser Omentum, Open Approach	PX	ICD-10-PCS
0DNT3ZZ	Release Lesser Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DNT4ZZ	Release Lesser Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNU0ZZ	Release Omentum, Open Approach	PX	ICD-10-PCS
0DNU3ZZ	Release Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DNU4ZZ	Release Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNV0ZZ	Release Mesentery, Open Approach	PX	ICD-10-PCS
0DNV3ZZ	Release Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DNV4ZZ	Release Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DNW0ZZ	Release Peritoneum, Open Approach	PX	ICD-10-PCS
0DNW3ZZ	Release Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DNW4ZZ	Release Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP000Z	Removal of Drainage Device from Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DP002Z	Removal of Monitoring Device from Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DP003Z	Removal of Infusion Device from Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DP007Z	Removal of Autologous Tissue Substitute from Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DP00CZ	Removal of Extraluminal Device from Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DP00DZ	Removal of Intraluminal Device from Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DP00JZ	Removal of Synthetic Substitute from Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DP00KZ	Removal of Nonautologous Tissue Substitute from Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DP00UZ	Removal of Feeding Device from Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DP00YZ	Removal of Other Device from Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DP030Z	Removal of Drainage Device from Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DP032Z	Removal of Monitoring Device from Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DP033Z	Removal of Infusion Device from Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DP037Z	Removal of Autologous Tissue Substitute from Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DP03CZ	Removal of Extraluminal Device from Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DP03DZ	Removal of Intraluminal Device from Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DP03JZ	Removal of Synthetic Substitute from Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DP03KZ	Removal of Nonautologous Tissue Substitute from Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DP03YZ	Removal of Other Device from Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DP040Z	Removal of Drainage Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP042Z	Removal of Monitoring Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP043Z	Removal of Infusion Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP047Z	Removal of Autologous Tissue Substitute from Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP04CZ	Removal of Extraluminal Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP04DZ	Removal of Intraluminal Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP04JZ	Removal of Synthetic Substitute from Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP04KZ	Removal of Nonautologous Tissue Substitute from Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP04UZ	Removal of Feeding Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DP04YZ	Removal of Other Device from Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP077Z	Removal of Autologous Tissue Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DP07CZ	Removal of Extraluminal Device from Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DP07JZ	Removal of Synthetic Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DP07KZ	Removal of Nonautologous Tissue Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DP087Z	Removal of Autologous Tissue Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DP08CZ	Removal of Extraluminal Device from Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DP08JZ	Removal of Synthetic Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DP08KZ	Removal of Nonautologous Tissue Substitute from Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DP501Z	Removal of Radioactive Element from Esophagus, Open Approach	PX	ICD-10-PCS
0DP502Z	Removal of Monitoring Device from Esophagus, Open Approach	PX	ICD-10-PCS
0DP503Z	Removal of Infusion Device from Esophagus, Open Approach	PX	ICD-10-PCS
0DP50UZ	Removal of Feeding Device from Esophagus, Open Approach	PX	ICD-10-PCS
0DP50YZ	Removal of Other Device from Esophagus, Open Approach	PX	ICD-10-PCS
0DP532Z	Removal of Monitoring Device from Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DP533Z	Removal of Infusion Device from Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DP53YZ	Removal of Other Device from Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DP541Z	Removal of Radioactive Element from Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP542Z	Removal of Monitoring Device from Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP543Z	Removal of Infusion Device from Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP54UZ	Removal of Feeding Device from Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP54YZ	Removal of Other Device from Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP600Z	Removal of Drainage Device from Stomach, Open Approach	PX	ICD-10-PCS
0DP602Z	Removal of Monitoring Device from Stomach, Open Approach	PX	ICD-10-PCS
0DP603Z	Removal of Infusion Device from Stomach, Open Approach	PX	ICD-10-PCS
0DP607Z	Removal of Autologous Tissue Substitute from Stomach, Open Approach	PX	ICD-10-PCS
0DP60CZ	Removal of Extraluminal Device from Stomach, Open Approach	PX	ICD-10-PCS
0DP60DZ	Removal of Intraluminal Device from Stomach, Open Approach	PX	ICD-10-PCS
0DP60JZ	Removal of Synthetic Substitute from Stomach, Open Approach	PX	ICD-10-PCS
0DP60KZ	Removal of Nonautologous Tissue Substitute from Stomach, Open Approach	PX	ICD-10-PCS
0DP60MZ	Removal of Stimulator Lead from Stomach, Open Approach	PX	ICD-10-PCS
0DP60UZ	Removal of Feeding Device from Stomach, Open Approach	PX	ICD-10-PCS
0DP60YZ	Removal of Other Device from Stomach, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DP630Z	Removal of Drainage Device from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DP632Z	Removal of Monitoring Device from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DP633Z	Removal of Infusion Device from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DP637Z	Removal of Autologous Tissue Substitute from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DP63CZ	Removal of Extraluminal Device from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DP63DZ	Removal of Intraluminal Device from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DP63JZ	Removal of Synthetic Substitute from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DP63KZ	Removal of Nonautologous Tissue Substitute from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DP63MZ	Removal of Stimulator Lead from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DP63YZ	Removal of Other Device from Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DP640Z	Removal of Drainage Device from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP642Z	Removal of Monitoring Device from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP643Z	Removal of Infusion Device from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP647Z	Removal of Autologous Tissue Substitute from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP64CZ	Removal of Extraluminal Device from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP64DZ	Removal of Intraluminal Device from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP64JZ	Removal of Synthetic Substitute from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP64KZ	Removal of Nonautologous Tissue Substitute from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP64MZ	Removal of Stimulator Lead from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP64UZ	Removal of Feeding Device from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP64YZ	Removal of Other Device from Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DP677Z	Removal of Autologous Tissue Substitute from Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DP67CZ	Removal of Extraluminal Device from Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DP67JZ	Removal of Synthetic Substitute from Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DP67KZ	Removal of Nonautologous Tissue Substitute from Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DP687Z	Removal of Autologous Tissue Substitute from Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DP68CZ	Removal of Extraluminal Device from Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DP68JZ	Removal of Synthetic Substitute from Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DP68KZ	Removal of Nonautologous Tissue Substitute from Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DPD00Z	Removal of Drainage Device from Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DPD02Z	Removal of Monitoring Device from Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DPD03Z	Removal of Infusion Device from Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DPD07Z	Removal of Autologous Tissue Substitute from Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DPD0CZ	Removal of Extraluminal Device from Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DPD0DZ	Removal of Intraluminal Device from Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DPD0JZ	Removal of Synthetic Substitute from Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DPD0KZ	Removal of Nonautologous Tissue Substitute from Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DPD0UZ	Removal of Feeding Device from Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DPD0YZ	Removal of Other Device from Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DPD30Z	Removal of Drainage Device from Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DPD32Z	Removal of Monitoring Device from Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DPD33Z	Removal of Infusion Device from Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DPD37Z	Removal of Autologous Tissue Substitute from Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DPD3CZ	Removal of Extraluminal Device from Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DPD3DZ	Removal of Intraluminal Device from Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DPD3JZ	Removal of Synthetic Substitute from Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DPD3KZ	Removal of Nonautologous Tissue Substitute from Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DPD3YZ	Removal of Other Device from Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DPD40Z	Removal of Drainage Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPD42Z	Removal of Monitoring Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPD43Z	Removal of Infusion Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPD47Z	Removal of Autologous Tissue Substitute from Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPD4CZ	Removal of Extraluminal Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPD4DZ	Removal of Intraluminal Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPD4JZ	Removal of Synthetic Substitute from Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPD4KZ	Removal of Nonautologous Tissue Substitute from Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPD4UZ	Removal of Feeding Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DPD4YZ	Removal of Other Device from Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPD77Z	Removal of Autologous Tissue Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DPD7CZ	Removal of Extraluminal Device from Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DPD7JZ	Removal of Synthetic Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DPD7KZ	Removal of Nonautologous Tissue Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DPD87Z	Removal of Autologous Tissue Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DPD8CZ	Removal of Extraluminal Device from Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DPD8JZ	Removal of Synthetic Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DPD8KZ	Removal of Nonautologous Tissue Substitute from Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DPP01Z	Removal of Radioactive Element from Rectum, Open Approach	PX	ICD-10-PCS
0DPP41Z	Removal of Radioactive Element from Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPQ0LZ	Removal of Artificial Sphincter from Anus, Open Approach	PX	ICD-10-PCS
0DPQ3LZ	Removal of Artificial Sphincter from Anus, Percutaneous Approach	PX	ICD-10-PCS
0DPQ4LZ	Removal of Artificial Sphincter from Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPQ7LZ	Removal of Artificial Sphincter from Anus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DPQ8LZ	Removal of Artificial Sphincter from Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DPR0MZ	Removal of Stimulator Lead from Anal Sphincter, Open Approach	PX	ICD-10-PCS
0DPR3MZ	Removal of Stimulator Lead from Anal Sphincter, Percutaneous Approach	PX	ICD-10-PCS
0DPR4MZ	Removal of Stimulator Lead from Anal Sphincter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPU00Z	Removal of Drainage Device from Omentum, Open Approach	PX	ICD-10-PCS
0DPU01Z	Removal of Radioactive Element from Omentum, Open Approach	PX	ICD-10-PCS
0DPU07Z	Removal of Autologous Tissue Substitute from Omentum, Open Approach	PX	ICD-10-PCS
0DPU0JZ	Removal of Synthetic Substitute from Omentum, Open Approach	PX	ICD-10-PCS
0DPU0KZ	Removal of Nonautologous Tissue Substitute from Omentum, Open Approach	PX	ICD-10-PCS
0DPU30Z	Removal of Drainage Device from Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DPU37Z	Removal of Autologous Tissue Substitute from Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DPU3JZ	Removal of Synthetic Substitute from Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DPU3KZ	Removal of Nonautologous Tissue Substitute from Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DPU40Z	Removal of Drainage Device from Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DPU41Z	Removal of Radioactive Element from Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPU47Z	Removal of Autologous Tissue Substitute from Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPU4JZ	Removal of Synthetic Substitute from Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPU4KZ	Removal of Nonautologous Tissue Substitute from Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPV00Z	Removal of Drainage Device from Mesentery, Open Approach	PX	ICD-10-PCS
0DPV01Z	Removal of Radioactive Element from Mesentery, Open Approach	PX	ICD-10-PCS
0DPV07Z	Removal of Autologous Tissue Substitute from Mesentery, Open Approach	PX	ICD-10-PCS
0DPV0JZ	Removal of Synthetic Substitute from Mesentery, Open Approach	PX	ICD-10-PCS
0DPV0KZ	Removal of Nonautologous Tissue Substitute from Mesentery, Open Approach	PX	ICD-10-PCS
0DPV30Z	Removal of Drainage Device from Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DPV37Z	Removal of Autologous Tissue Substitute from Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DPV3JZ	Removal of Synthetic Substitute from Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DPV3KZ	Removal of Nonautologous Tissue Substitute from Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DPV40Z	Removal of Drainage Device from Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPV41Z	Removal of Radioactive Element from Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPV47Z	Removal of Autologous Tissue Substitute from Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPV4JZ	Removal of Synthetic Substitute from Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPV4KZ	Removal of Nonautologous Tissue Substitute from Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPW00Z	Removal of Drainage Device from Peritoneum, Open Approach	PX	ICD-10-PCS
0DPW01Z	Removal of Radioactive Element from Peritoneum, Open Approach	PX	ICD-10-PCS
0DPW07Z	Removal of Autologous Tissue Substitute from Peritoneum, Open Approach	PX	ICD-10-PCS
0DPW0JZ	Removal of Synthetic Substitute from Peritoneum, Open Approach	PX	ICD-10-PCS
0DPW0KZ	Removal of Nonautologous Tissue Substitute from Peritoneum, Open Approach	PX	ICD-10-PCS
0DPW30Z	Removal of Drainage Device from Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DPW37Z	Removal of Autologous Tissue Substitute from Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DPW3JZ	Removal of Synthetic Substitute from Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DPW3KZ	Removal of Nonautologous Tissue Substitute from Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DPW40Z	Removal of Drainage Device from Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPW41Z	Removal of Radioactive Element from Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DPW47Z	Removal of Autologous Tissue Substitute from Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPW4JZ	Removal of Synthetic Substitute from Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DPW4KZ	Removal of Nonautologous Tissue Substitute from Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQ10ZZ	Repair Upper Esophagus, Open Approach	PX	ICD-10-PCS
0DQ13ZZ	Repair Upper Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DQ14ZZ	Repair Upper Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQ17ZZ	Repair Upper Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQ18ZZ	Repair Upper Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQ20ZZ	Repair Middle Esophagus, Open Approach	PX	ICD-10-PCS
0DQ23ZZ	Repair Middle Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DQ24ZZ	Repair Middle Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQ27ZZ	Repair Middle Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQ28ZZ	Repair Middle Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQ30ZZ	Repair Lower Esophagus, Open Approach	PX	ICD-10-PCS
0DQ33ZZ	Repair Lower Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DQ34ZZ	Repair Lower Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQ37ZZ	Repair Lower Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQ38ZZ	Repair Lower Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQ40ZZ	Repair Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0DQ43ZZ	Repair Esophagogastric Junction, Percutaneous Approach	PX	ICD-10-PCS
0DQ44ZZ	Repair Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQ47ZZ	Repair Esophagogastric Junction, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQ48ZZ	Repair Esophagogastric Junction, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQ50ZZ	Repair Esophagus, Open Approach	PX	ICD-10-PCS
0DQ53ZZ	Repair Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DQ54ZZ	Repair Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQ57ZZ	Repair Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQ58ZZ	Repair Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQ60ZZ	Repair Stomach, Open Approach	PX	ICD-10-PCS
0DQ63ZZ	Repair Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DQ64ZZ	Repair Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQ67ZZ	Repair Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQ68ZZ	Repair Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQ70ZZ	Repair Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0DQ73ZZ	Repair Stomach, Pylorus, Percutaneous Approach	PX	ICD-10-PCS
0DQ74ZZ	Repair Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQ77ZZ	Repair Stomach, Pylorus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQ78ZZ	Repair Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQ80ZZ	Repair Small Intestine, Open Approach	PX	ICD-10-PCS
0DQ83ZZ	Repair Small Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DQ84ZZ	Repair Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQ87ZZ	Repair Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DQ88ZZ	Repair Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQ90ZZ	Repair Duodenum, Open Approach	PX	ICD-10-PCS
0DQ93ZZ	Repair Duodenum, Percutaneous Approach	PX	ICD-10-PCS
0DQ94ZZ	Repair Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQ97ZZ	Repair Duodenum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQ98ZZ	Repair Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQA0ZZ	Repair Jejunum, Open Approach	PX	ICD-10-PCS
0DQA3ZZ	Repair Jejunum, Percutaneous Approach	PX	ICD-10-PCS
0DQA4ZZ	Repair Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQA7ZZ	Repair Jejunum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQA8ZZ	Repair Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQB0ZZ	Repair Ileum, Open Approach	PX	ICD-10-PCS
0DQB3ZZ	Repair Ileum, Percutaneous Approach	PX	ICD-10-PCS
0DQB4ZZ	Repair Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQB7ZZ	Repair Ileum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQB8ZZ	Repair Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQC0ZZ	Repair Ileocecal Valve, Open Approach	PX	ICD-10-PCS
0DQC3ZZ	Repair Ileocecal Valve, Percutaneous Approach	PX	ICD-10-PCS
0DQC4ZZ	Repair Ileocecal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQC7ZZ	Repair Ileocecal Valve, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQC8ZZ	Repair Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQE0ZZ	Repair Large Intestine, Open Approach	PX	ICD-10-PCS
0DQE3ZZ	Repair Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DQE4ZZ	Repair Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQE7ZZ	Repair Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQE8ZZ	Repair Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQF0ZZ	Repair Right Large Intestine, Open Approach	PX	ICD-10-PCS
0DQF3ZZ	Repair Right Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DQF4ZZ	Repair Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQF7ZZ	Repair Right Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQF8ZZ	Repair Right Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQG0ZZ	Repair Left Large Intestine, Open Approach	PX	ICD-10-PCS
0DQG3ZZ	Repair Left Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DQG4ZZ	Repair Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQG7ZZ	Repair Left Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQG8ZZ	Repair Left Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQH0ZZ	Repair Cecum, Open Approach	PX	ICD-10-PCS
0DQH3ZZ	Repair Cecum, Percutaneous Approach	PX	ICD-10-PCS
0DQH4ZZ	Repair Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQH7ZZ	Repair Cecum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQH8ZZ	Repair Cecum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQJ0ZZ	Repair Appendix, Open Approach	PX	ICD-10-PCS
0DQJ3ZZ	Repair Appendix, Percutaneous Approach	PX	ICD-10-PCS
0DQJ4ZZ	Repair Appendix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQJ7ZZ	Repair Appendix, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DQJ8ZZ	Repair Appendix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQK0ZZ	Repair Ascending Colon, Open Approach	PX	ICD-10-PCS
0DQK3ZZ	Repair Ascending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DQK4ZZ	Repair Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQK7ZZ	Repair Ascending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQK8ZZ	Repair Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQL0ZZ	Repair Transverse Colon, Open Approach	PX	ICD-10-PCS
0DQL3ZZ	Repair Transverse Colon, Percutaneous Approach	PX	ICD-10-PCS
0DQL4ZZ	Repair Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQL7ZZ	Repair Transverse Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQL8ZZ	Repair Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQM0ZZ	Repair Descending Colon, Open Approach	PX	ICD-10-PCS
0DQM3ZZ	Repair Descending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DQM4ZZ	Repair Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQM7ZZ	Repair Descending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQM8ZZ	Repair Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQN0ZZ	Repair Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0DQN3ZZ	Repair Sigmoid Colon, Percutaneous Approach	PX	ICD-10-PCS
0DQN4ZZ	Repair Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQN7ZZ	Repair Sigmoid Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQN8ZZ	Repair Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQP0ZZ	Repair Rectum, Open Approach	PX	ICD-10-PCS
0DQP3ZZ	Repair Rectum, Percutaneous Approach	PX	ICD-10-PCS
0DQP4ZZ	Repair Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQP7ZZ	Repair Rectum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQP8ZZ	Repair Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQQ0ZZ	Repair Anus, Open Approach	PX	ICD-10-PCS
0DQQ3ZZ	Repair Anus, Percutaneous Approach	PX	ICD-10-PCS
0DQQ4ZZ	Repair Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQQ7ZZ	Repair Anus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DQQ8ZZ	Repair Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DQQXZZ	Repair Anus, External Approach	PX	ICD-10-PCS
0DQR0ZZ	Repair Anal Sphincter, Open Approach	PX	ICD-10-PCS
0DQR3ZZ	Repair Anal Sphincter, Percutaneous Approach	PX	ICD-10-PCS
0DQR4ZZ	Repair Anal Sphincter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQS0ZZ	Repair Greater Omentum, Open Approach	PX	ICD-10-PCS
0DQS3ZZ	Repair Greater Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DQS4ZZ	Repair Greater Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQT0ZZ	Repair Lesser Omentum, Open Approach	PX	ICD-10-PCS
0DQT3ZZ	Repair Lesser Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DQT4ZZ	Repair Lesser Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQU0ZZ	Repair Omentum, Open Approach	PX	ICD-10-PCS
0DQU3ZZ	Repair Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DQU4ZZ	Repair Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQV0ZZ	Repair Mesentery, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DQV3ZZ	Repair Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DQV4ZZ	Repair Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DQW0ZZ	Repair Peritoneum, Open Approach	PX	ICD-10-PCS
0DQW3ZZ	Repair Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DQW4ZZ	Repair Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DR507Z	Replacement of Esophagus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DR50JZ	Replacement of Esophagus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DR50KZ	Replacement of Esophagus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DR547Z	Replacement of Esophagus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DR54JZ	Replacement of Esophagus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DR54KZ	Replacement of Esophagus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DR577Z	Replacement of Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DR57JZ	Replacement of Esophagus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DR57KZ	Replacement of Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DR587Z	Replacement of Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DR58JZ	Replacement of Esophagus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DR58KZ	Replacement of Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DRR07Z	Replacement of Anal Sphincter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRR0JZ	Replacement of Anal Sphincter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DRR0KZ	Replacement of Anal Sphincter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRR47Z	Replacement of Anal Sphincter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRR4JZ	Replacement of Anal Sphincter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRR4KZ	Replacement of Anal Sphincter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRS07Z	Replacement of Greater Omentum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRS0JZ	Replacement of Greater Omentum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DRS0KZ	Replacement of Greater Omentum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRS47Z	Replacement of Greater Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DRS4JZ	Replacement of Greater Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRS4KZ	Replacement of Greater Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRT07Z	Replacement of Lesser Omentum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRT0JZ	Replacement of Lesser Omentum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DRT0KZ	Replacement of Lesser Omentum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRT47Z	Replacement of Lesser Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRT4JZ	Replacement of Lesser Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRT4KZ	Replacement of Lesser Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRU07Z	Replacement of Omentum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRU0JZ	Replacement of Omentum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DRU0KZ	Replacement of Omentum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRU47Z	Replacement of Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRU4JZ	Replacement of Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRU4KZ	Replacement of Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRV07Z	Replacement of Mesentery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRV0JZ	Replacement of Mesentery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DRV0KZ	Replacement of Mesentery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRV47Z	Replacement of Mesentery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRV4JZ	Replacement of Mesentery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRV4KZ	Replacement of Mesentery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRW07Z	Replacement of Peritoneum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRW0JZ	Replacement of Peritoneum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DRW0KZ	Replacement of Peritoneum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DRW47Z	Replacement of Peritoneum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRW4JZ	Replacement of Peritoneum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DRW4KZ	Replacement of Peritoneum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DS50ZZ	Reposition Esophagus, Open Approach	PX	ICD-10-PCS
0DS54ZZ	Reposition Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DS57ZZ	Reposition Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DS58ZZ	Reposition Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DS60ZZ	Reposition Stomach, Open Approach	PX	ICD-10-PCS
0DS64ZZ	Reposition Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DS67ZZ	Reposition Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DS68ZZ	Reposition Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DS80ZZ	Reposition Small Intestine, Open Approach	PX	ICD-10-PCS
0DS84ZZ	Reposition Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DS87ZZ	Reposition Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DS88ZZ	Reposition Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DS90ZZ	Reposition Duodenum, Open Approach	PX	ICD-10-PCS
0DS94ZZ	Reposition Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DS97ZZ	Reposition Duodenum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DS98ZZ	Reposition Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DSA0ZZ	Reposition Jejunum, Open Approach	PX	ICD-10-PCS
0DSA4ZZ	Reposition Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DSA7ZZ	Reposition Jejunum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DSA8ZZ	Reposition Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DSB0ZZ	Reposition Ileum, Open Approach	PX	ICD-10-PCS
0DSB4ZZ	Reposition Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DSB7ZZ	Reposition Ileum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DSB8ZZ	Reposition Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DSE0ZZ	Reposition Large Intestine, Open Approach	PX	ICD-10-PCS
0DSE4ZZ	Reposition Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DSE7ZZ	Reposition Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DSE8ZZ	Reposition Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DSH0ZZ	Reposition Cecum, Open Approach	PX	ICD-10-PCS
0DSH4ZZ	Reposition Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DSH7ZZ	Reposition Cecum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DSH8ZZ	Reposition Cecum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DSK0ZZ	Reposition Ascending Colon, Open Approach	PX	ICD-10-PCS
0DSK4ZZ	Reposition Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DSK7ZZ	Reposition Ascending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DSK8ZZ	Reposition Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DSL0ZZ	Reposition Transverse Colon, Open Approach	PX	ICD-10-PCS
0DSL4ZZ	Reposition Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DSL7ZZ	Reposition Transverse Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DSL8ZZ	Reposition Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DSM0ZZ	Reposition Descending Colon, Open Approach	PX	ICD-10-PCS
0DSM4ZZ	Reposition Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DSM7ZZ	Reposition Descending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DSM8ZZ	Reposition Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DSN0ZZ	Reposition Sigmoid Colon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DSN4ZZ	Reposition Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DSN7ZZ	Reposition Sigmoid Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DSN8ZZ	Reposition Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DSP0ZZ	Reposition Rectum, Open Approach	PX	ICD-10-PCS
0DSP4ZZ	Reposition Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DSP7ZZ	Reposition Rectum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DSP8ZZ	Reposition Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DSQ0ZZ	Reposition Anus, Open Approach	PX	ICD-10-PCS
0DSQ4ZZ	Reposition Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DSQ7ZZ	Reposition Anus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DSQ8ZZ	Reposition Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DT10ZZ	Resection of Upper Esophagus, Open Approach	PX	ICD-10-PCS
0DT14ZZ	Resection of Upper Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DT17ZZ	Resection of Upper Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DT18ZZ	Resection of Upper Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DT20ZZ	Resection of Middle Esophagus, Open Approach	PX	ICD-10-PCS
0DT24ZZ	Resection of Middle Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DT27ZZ	Resection of Middle Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DT28ZZ	Resection of Middle Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DT30ZZ	Resection of Lower Esophagus, Open Approach	PX	ICD-10-PCS
0DT34ZZ	Resection of Lower Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DT37ZZ	Resection of Lower Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DT38ZZ	Resection of Lower Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DT40ZZ	Resection of Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0DT44ZZ	Resection of Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DT47ZZ	Resection of Esophagogastric Junction, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DT48ZZ	Resection of Esophagogastric Junction, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DT50ZZ	Resection of Esophagus, Open Approach	PX	ICD-10-PCS
0DT54ZZ	Resection of Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DT57ZZ	Resection of Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DT58ZZ	Resection of Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DT60ZZ	Resection of Stomach, Open Approach	PX	ICD-10-PCS
0DT64ZZ	Resection of Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DT67ZZ	Resection of Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DT68ZZ	Resection of Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DT70ZZ	Resection of Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0DT74ZZ	Resection of Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DT77ZZ	Resection of Stomach, Pylorus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DT78ZZ	Resection of Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DT80ZZ	Resection of Small Intestine, Open Approach	PX	ICD-10-PCS
0DT84ZZ	Resection of Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DT87ZZ	Resection of Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DT88ZZ	Resection of Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DT90ZZ	Resection of Duodenum, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DT94ZZ	Resection of Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DT97ZZ	Resection of Duodenum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DT98ZZ	Resection of Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTA0ZZ	Resection of Jejunum, Open Approach	PX	ICD-10-PCS
0DTA4ZZ	Resection of Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTA7ZZ	Resection of Jejunum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTA8ZZ	Resection of Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTB0ZZ	Resection of Ileum, Open Approach	PX	ICD-10-PCS
0DTB4ZZ	Resection of Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTB7ZZ	Resection of Ileum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTB8ZZ	Resection of Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTC0ZZ	Resection of Ileocecal Valve, Open Approach	PX	ICD-10-PCS
0DTC4ZZ	Resection of Ileocecal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTC7ZZ	Resection of Ileocecal Valve, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTC8ZZ	Resection of Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTE0ZZ	Resection of Large Intestine, Open Approach	PX	ICD-10-PCS
0DTE4ZZ	Resection of Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTE7ZZ	Resection of Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTE8ZZ	Resection of Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTF0ZZ	Resection of Right Large Intestine, Open Approach	PX	ICD-10-PCS
0DTF4ZG	Resection of right large intestine, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DTF4ZZ	Resection of Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTF7ZZ	Resection of Right Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTF8ZZ	Resection of Right Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTG0ZZ	Resection of Left Large Intestine, Open Approach	PX	ICD-10-PCS
0DTG4ZG	Resection of left large intestine, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DTG4ZZ	Resection of Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTG7ZZ	Resection of Left Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTG8ZZ	Resection of Left Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTGFZZ	Resection of Left Large Intestine, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0DTH0ZZ	Resection of Cecum, Open Approach	PX	ICD-10-PCS
0DTH4ZZ	Resection of Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTH7ZZ	Resection of Cecum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTH8ZZ	Resection of Cecum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTJ0ZZ	Resection of Appendix, Open Approach	PX	ICD-10-PCS
0DTJ4ZG	Resection of appendix, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DTJ4ZZ	Resection of Appendix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTJ7ZZ	Resection of Appendix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTJ8ZZ	Resection of Appendix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTK0ZZ	Resection of Ascending Colon, Open Approach	PX	ICD-10-PCS
0DTK4ZZ	Resection of Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTK7ZZ	Resection of Ascending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DTK8ZZ	Resection of Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTL0ZZ	Resection of Transverse Colon, Open Approach	PX	ICD-10-PCS
0DTL4ZG	Resection of transverse colon, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DTL4ZZ	Resection of Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTL7ZZ	Resection of Transverse Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTL8ZZ	Resection of Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTLFZZ	Resection of Transverse Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0DTM0ZZ	Resection of Descending Colon, Open Approach	PX	ICD-10-PCS
0DTM4ZG	Resection of descending colon, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DTM4ZZ	Resection of Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTM7ZZ	Resection of Descending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTM8ZZ	Resection of Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTMFZZ	Resection of Descending Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0DTN0ZZ	Resection of Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0DTN4ZG	Resection of sigmoid colon, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0DTN4ZZ	Resection of Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTN7ZZ	Resection of Sigmoid Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTN8ZZ	Resection of Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTNFZZ	Resection of Sigmoid Colon, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0DTP0ZZ	Resection of Rectum, Open Approach	PX	ICD-10-PCS
0DTP4ZZ	Resection of Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTP7ZZ	Resection of Rectum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTP8ZZ	Resection of Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTQ0ZZ	Resection of Anus, Open Approach	PX	ICD-10-PCS
0DTQ4ZZ	Resection of Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTQ7ZZ	Resection of Anus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DTQ8ZZ	Resection of Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DTR0ZZ	Resection of Anal Sphincter, Open Approach	PX	ICD-10-PCS
0DTR4ZZ	Resection of Anal Sphincter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTS0ZZ	Resection of Greater Omentum, Open Approach	PX	ICD-10-PCS
0DTS4ZZ	Resection of Greater Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTT0ZZ	Resection of Lesser Omentum, Open Approach	PX	ICD-10-PCS
0DTT4ZZ	Resection of Lesser Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DTU0ZZ	Resection of Omentum, Open Approach	PX	ICD-10-PCS
0DTU4ZZ	Resection of Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU107Z	Supplement Upper Esophagus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU10JZ	Supplement Upper Esophagus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DU10KZ	Supplement Upper Esophagus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DU147Z	Supplement Upper Esophagus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU14JZ	Supplement Upper Esophagus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU14KZ	Supplement Upper Esophagus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU177Z	Supplement Upper Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU17JZ	Supplement Upper Esophagus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU17KZ	Supplement Upper Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU187Z	Supplement Upper Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU18JZ	Supplement Upper Esophagus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU18KZ	Supplement Upper Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU207Z	Supplement Middle Esophagus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU20JZ	Supplement Middle Esophagus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DU20KZ	Supplement Middle Esophagus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU247Z	Supplement Middle Esophagus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU24JZ	Supplement Middle Esophagus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU24KZ	Supplement Middle Esophagus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU277Z	Supplement Middle Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU27JZ	Supplement Middle Esophagus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU27KZ	Supplement Middle Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU287Z	Supplement Middle Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU28JZ	Supplement Middle Esophagus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU28KZ	Supplement Middle Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU307Z	Supplement Lower Esophagus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU30JZ	Supplement Lower Esophagus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DU30KZ	Supplement Lower Esophagus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU347Z	Supplement Lower Esophagus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU34JZ	Supplement Lower Esophagus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU34KZ	Supplement Lower Esophagus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU377Z	Supplement Lower Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU37JZ	Supplement Lower Esophagus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU37KZ	Supplement Lower Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU387Z	Supplement Lower Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU38JZ	Supplement Lower Esophagus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU38KZ	Supplement Lower Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU407Z	Supplement Esophagogastric Junction with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU40JZ	Supplement Esophagogastric Junction with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DU40KZ	Supplement Esophagogastric Junction with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU447Z	Supplement Esophagogastric Junction with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU44JZ	Supplement Esophagogastric Junction with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU44KZ	Supplement Esophagogastric Junction with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU477Z	Supplement Esophagogastric Junction with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU47JZ	Supplement Esophagogastric Junction with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU47KZ	Supplement Esophagogastric Junction with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU487Z	Supplement Esophagogastric Junction with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU48JZ	Supplement Esophagogastric Junction with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU48KZ	Supplement Esophagogastric Junction with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU507Z	Supplement Esophagus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DU50JZ	Supplement Esophagus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DU50KZ	Supplement Esophagus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU547Z	Supplement Esophagus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU54JZ	Supplement Esophagus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU54KZ	Supplement Esophagus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU577Z	Supplement Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU57JZ	Supplement Esophagus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU57KZ	Supplement Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU587Z	Supplement Esophagus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU58JZ	Supplement Esophagus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU58KZ	Supplement Esophagus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU607Z	Supplement Stomach with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU60JZ	Supplement Stomach with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DU60KZ	Supplement Stomach with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU647Z	Supplement Stomach with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU64JZ	Supplement Stomach with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU64KZ	Supplement Stomach with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU677Z	Supplement Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU67JZ	Supplement Stomach with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU67KZ	Supplement Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU687Z	Supplement Stomach with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU68JZ	Supplement Stomach with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU68KZ	Supplement Stomach with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU707Z	Supplement Stomach, Pylorus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU70JZ	Supplement Stomach, Pylorus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DU70KZ	Supplement Stomach, Pylorus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0DU747Z	Supplement Stomach, Pylorus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU74JZ	Supplement Stomach, Pylorus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU74KZ	Supplement Stomach, Pylorus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU777Z	Supplement Stomach, Pylorus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU77JZ	Supplement Stomach, Pylorus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU77KZ	Supplement Stomach, Pylorus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU787Z	Supplement Stomach, Pylorus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU78JZ	Supplement Stomach, Pylorus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU78KZ	Supplement Stomach, Pylorus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU807Z	Supplement Small Intestine with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU80JZ	Supplement Small Intestine with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DU80KZ	Supplement Small Intestine with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU847Z	Supplement Small Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU84JZ	Supplement Small Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU84KZ	Supplement Small Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU877Z	Supplement Small Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU87JZ	Supplement Small Intestine with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU87KZ	Supplement Small Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU887Z	Supplement Small Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU88JZ	Supplement Small Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU88KZ	Supplement Small Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU907Z	Supplement Duodenum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU90JZ	Supplement Duodenum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DU90KZ	Supplement Duodenum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DU947Z	Supplement Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DU94JZ	Supplement Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU94KZ	Supplement Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DU977Z	Supplement Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU97JZ	Supplement Duodenum with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU97KZ	Supplement Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DU987Z	Supplement Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU98JZ	Supplement Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DU98KZ	Supplement Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUA07Z	Supplement Jejunum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUA0JZ	Supplement Jejunum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUA0KZ	Supplement Jejunum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUA47Z	Supplement Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUA4JZ	Supplement Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUA4KZ	Supplement Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUA77Z	Supplement Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUA7JZ	Supplement Jejunum with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUA7KZ	Supplement Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUA87Z	Supplement Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUA8JZ	Supplement Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUA8KZ	Supplement Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUB07Z	Supplement Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUB0JZ	Supplement Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUB0KZ	Supplement Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUB47Z	Supplement Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUB4JZ	Supplement Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUB4KZ	Supplement Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DUB77Z	Supplement Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUB7JZ	Supplement Ileum with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUB7KZ	Supplement Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUB87Z	Supplement Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUB8JZ	Supplement Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUB8KZ	Supplement Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUC07Z	Supplement Ileocecal Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUC0JZ	Supplement Ileocecal Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUC0KZ	Supplement Ileocecal Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUC47Z	Supplement Ileocecal Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUC4JZ	Supplement Ileocecal Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUC4KZ	Supplement Ileocecal Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUC77Z	Supplement Ileocecal Valve with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUC7JZ	Supplement Ileocecal Valve with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUC7KZ	Supplement Ileocecal Valve with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUC87Z	Supplement Ileocecal Valve with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUC8JZ	Supplement Ileocecal Valve with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUC8KZ	Supplement Ileocecal Valve with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUE07Z	Supplement Large Intestine with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUE0JZ	Supplement Large Intestine with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUE0KZ	Supplement Large Intestine with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUE47Z	Supplement Large Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUE4JZ	Supplement Large Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUE4KZ	Supplement Large Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUE77Z	Supplement Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DUE7JZ	Supplement Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUE7KZ	Supplement Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUE87Z	Supplement Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUE8JZ	Supplement Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUE8KZ	Supplement Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUF07Z	Supplement Right Large Intestine with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUF0JZ	Supplement Right Large Intestine with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUF0KZ	Supplement Right Large Intestine with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUF47Z	Supplement Right Large Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUF4JZ	Supplement Right Large Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUF4KZ	Supplement Right Large Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUF77Z	Supplement Right Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUF7JZ	Supplement Right Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUF7KZ	Supplement Right Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUF87Z	Supplement Right Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUF8JZ	Supplement Right Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUF8KZ	Supplement Right Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUG07Z	Supplement Left Large Intestine with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUG0JZ	Supplement Left Large Intestine with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUG0KZ	Supplement Left Large Intestine with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUG47Z	Supplement Left Large Intestine with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUG4JZ	Supplement Left Large Intestine with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUG4KZ	Supplement Left Large Intestine with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DUG77Z	Supplement Left Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUG7JZ	Supplement Left Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUG7KZ	Supplement Left Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUG87Z	Supplement Left Large Intestine with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUG8JZ	Supplement Left Large Intestine with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUG8KZ	Supplement Left Large Intestine with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUH07Z	Supplement Cecum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUH0JZ	Supplement Cecum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUH0KZ	Supplement Cecum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUH47Z	Supplement Cecum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUH4JZ	Supplement Cecum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUH4KZ	Supplement Cecum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUH77Z	Supplement Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUH7JZ	Supplement Cecum with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUH7KZ	Supplement Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUH87Z	Supplement Cecum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUH8JZ	Supplement Cecum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUH8KZ	Supplement Cecum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUK07Z	Supplement Ascending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUK0JZ	Supplement Ascending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUK0KZ	Supplement Ascending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUK47Z	Supplement Ascending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUK4JZ	Supplement Ascending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUK4KZ	Supplement Ascending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUK77Z	Supplement Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DUK7JZ	Supplement Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUK7KZ	Supplement Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUK87Z	Supplement Ascending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUK8JZ	Supplement Ascending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUK8KZ	Supplement Ascending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUL07Z	Supplement Transverse Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUL0JZ	Supplement Transverse Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUL0KZ	Supplement Transverse Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUL47Z	Supplement Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUL4JZ	Supplement Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUL4KZ	Supplement Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUL77Z	Supplement Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUL7JZ	Supplement Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUL7KZ	Supplement Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUL87Z	Supplement Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUL8JZ	Supplement Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUL8KZ	Supplement Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUM07Z	Supplement Descending Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUM0JZ	Supplement Descending Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUM0KZ	Supplement Descending Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUM47Z	Supplement Descending Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUM4JZ	Supplement Descending Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUM4KZ	Supplement Descending Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DUM77Z	Supplement Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUM7JZ	Supplement Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUM7KZ	Supplement Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUM87Z	Supplement Descending Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUM8JZ	Supplement Descending Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUM8KZ	Supplement Descending Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUN07Z	Supplement Sigmoid Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUN0JZ	Supplement Sigmoid Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUN0KZ	Supplement Sigmoid Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUN47Z	Supplement Sigmoid Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUN4JZ	Supplement Sigmoid Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUN4KZ	Supplement Sigmoid Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUN77Z	Supplement Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUN7JZ	Supplement Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUN7KZ	Supplement Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUN87Z	Supplement Sigmoid Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUN8JZ	Supplement Sigmoid Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUN8KZ	Supplement Sigmoid Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUP07Z	Supplement Rectum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUP0JZ	Supplement Rectum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUP0KZ	Supplement Rectum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUP47Z	Supplement Rectum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUP4JZ	Supplement Rectum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUP4KZ	Supplement Rectum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUP77Z	Supplement Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DUP7JZ	Supplement Rectum with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUP7KZ	Supplement Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUP87Z	Supplement Rectum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUP8JZ	Supplement Rectum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUP8KZ	Supplement Rectum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUQ07Z	Supplement Anus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUQ0JZ	Supplement Anus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUQ0KZ	Supplement Anus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUQ47Z	Supplement Anus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUQ4JZ	Supplement Anus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUQ4KZ	Supplement Anus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUQ77Z	Supplement Anus with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUQ7JZ	Supplement Anus with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUQ7KZ	Supplement Anus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DUQ87Z	Supplement Anus with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUQ8JZ	Supplement Anus with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUQ8KZ	Supplement Anus with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DUQX7Z	Supplement Anus with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0DUQXJZ	Supplement Anus with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0DUQXKZ	Supplement Anus with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0DUR07Z	Supplement Anal Sphincter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUR0JZ	Supplement Anal Sphincter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUR0KZ	Supplement Anal Sphincter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUR47Z	Supplement Anal Sphincter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUR4JZ	Supplement Anal Sphincter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUR4KZ	Supplement Anal Sphincter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUS07Z	Supplement Greater Omentum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUS0JZ	Supplement Greater Omentum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DUS0KZ	Supplement Greater Omentum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUS47Z	Supplement Greater Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUS4JZ	Supplement Greater Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUS4KZ	Supplement Greater Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUT07Z	Supplement Lesser Omentum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUT0JZ	Supplement Lesser Omentum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUT0KZ	Supplement Lesser Omentum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUT47Z	Supplement Lesser Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUT4JZ	Supplement Lesser Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUT4KZ	Supplement Lesser Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUU07Z	Supplement Omentum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUU0JZ	Supplement Omentum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUU0KZ	Supplement Omentum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUU47Z	Supplement Omentum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUU4JZ	Supplement Omentum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUU4KZ	Supplement Omentum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUV07Z	Supplement Mesentery with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUV0JZ	Supplement Mesentery with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUV0KZ	Supplement Mesentery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUV47Z	Supplement Mesentery with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUV4JZ	Supplement Mesentery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUV4KZ	Supplement Mesentery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUW07Z	Supplement Peritoneum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUW0JZ	Supplement Peritoneum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0DUW0KZ	Supplement Peritoneum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0DUW47Z	Supplement Peritoneum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DUW4JZ	Supplement Peritoneum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DUW4KZ	Supplement Peritoneum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV10CZ	Restriction of Upper Esophagus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DV10DZ	Restriction of Upper Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DV10ZZ	Restriction of Upper Esophagus, Open Approach	PX	ICD-10-PCS
0DV13CZ	Restriction of Upper Esophagus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV13DZ	Restriction of Upper Esophagus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV13ZZ	Restriction of Upper Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DV14CZ	Restriction of Upper Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV14DZ	Restriction of Upper Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV14ZZ	Restriction of Upper Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV17DZ	Restriction of Upper Esophagus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV17ZZ	Restriction of Upper Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV18DZ	Restriction of Upper Esophagus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV18ZZ	Restriction of Upper Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV20CZ	Restriction of Middle Esophagus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DV20DZ	Restriction of Middle Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DV20ZZ	Restriction of Middle Esophagus, Open Approach	PX	ICD-10-PCS
0DV23CZ	Restriction of Middle Esophagus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV23DZ	Restriction of Middle Esophagus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV23ZZ	Restriction of Middle Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DV24CZ	Restriction of Middle Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV24DZ	Restriction of Middle Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV24ZZ	Restriction of Middle Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV27DZ	Restriction of Middle Esophagus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV27ZZ	Restriction of Middle Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV28DZ	Restriction of Middle Esophagus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV28ZZ	Restriction of Middle Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV30CZ	Restriction of Lower Esophagus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DV30DZ	Restriction of Lower Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DV30ZZ	Restriction of Lower Esophagus, Open Approach	PX	ICD-10-PCS
0DV33CZ	Restriction of Lower Esophagus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DV33DZ	Restriction of Lower Esophagus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV33ZZ	Restriction of Lower Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DV34CZ	Restriction of Lower Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV34DZ	Restriction of Lower Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV34ZZ	Restriction of Lower Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV37DZ	Restriction of Lower Esophagus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV37ZZ	Restriction of Lower Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV38DZ	Restriction of Lower Esophagus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV38ZZ	Restriction of Lower Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV40CZ	Restriction of Esophagogastric Junction with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DV40DZ	Restriction of Esophagogastric Junction with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DV40ZZ	Restriction of Esophagogastric Junction, Open Approach	PX	ICD-10-PCS
0DV43CZ	Restriction of Esophagogastric Junction with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV43DZ	Restriction of Esophagogastric Junction with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV43ZZ	Restriction of Esophagogastric Junction, Percutaneous Approach	PX	ICD-10-PCS
0DV44CZ	Restriction of Esophagogastric Junction with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV44DZ	Restriction of Esophagogastric Junction with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV44ZZ	Restriction of Esophagogastric Junction, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV47DZ	Restriction of Esophagogastric Junction with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV47ZZ	Restriction of Esophagogastric Junction, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV48DZ	Restriction of Esophagogastric Junction with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV48ZZ	Restriction of Esophagogastric Junction, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV50CZ	Restriction of Esophagus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DV50DZ	Restriction of Esophagus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DV50ZZ	Restriction of Esophagus, Open Approach	PX	ICD-10-PCS
0DV53CZ	Restriction of Esophagus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV53DZ	Restriction of Esophagus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV53ZZ	Restriction of Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DV54CZ	Restriction of Esophagus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DV54DZ	Restriction of Esophagus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV54ZZ	Restriction of Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV57DZ	Restriction of Esophagus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV57ZZ	Restriction of Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV58DZ	Restriction of Esophagus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV58ZZ	Restriction of Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV60CZ	Restriction of Stomach with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DV60DZ	Restriction of Stomach with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DV60ZZ	Restriction of Stomach, Open Approach	PX	ICD-10-PCS
0DV63CZ	Restriction of Stomach with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV63DZ	Restriction of Stomach with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV63ZZ	Restriction of Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DV64CZ	Restriction of Stomach with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV64DZ	Restriction of Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV64ZZ	Restriction of Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV67ZZ	Restriction of Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV68ZZ	Restriction of Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV70CZ	Restriction of Stomach, Pylorus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DV70DZ	Restriction of Stomach, Pylorus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DV70ZZ	Restriction of Stomach, Pylorus, Open Approach	PX	ICD-10-PCS
0DV73CZ	Restriction of Stomach, Pylorus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV73DZ	Restriction of Stomach, Pylorus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV73ZZ	Restriction of Stomach, Pylorus, Percutaneous Approach	PX	ICD-10-PCS
0DV74CZ	Restriction of Stomach, Pylorus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV74DZ	Restriction of Stomach, Pylorus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV74ZZ	Restriction of Stomach, Pylorus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV77DZ	Restriction of Stomach, Pylorus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV77ZZ	Restriction of Stomach, Pylorus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV78DZ	Restriction of Stomach, Pylorus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV78ZZ	Restriction of Stomach, Pylorus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV80CZ	Restriction of Small Intestine with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DV80DZ	Restriction of Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DV80ZZ	Restriction of Small Intestine, Open Approach	PX	ICD-10-PCS
0DV83CZ	Restriction of Small Intestine with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DV83DZ	Restriction of Small Intestine with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV83ZZ	Restriction of Small Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DV84CZ	Restriction of Small Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV84DZ	Restriction of Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV84ZZ	Restriction of Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV87DZ	Restriction of Small Intestine with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV87ZZ	Restriction of Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV88DZ	Restriction of Small Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV88ZZ	Restriction of Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV90CZ	Restriction of Duodenum with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DV90DZ	Restriction of Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DV90ZZ	Restriction of Duodenum, Open Approach	PX	ICD-10-PCS
0DV93CZ	Restriction of Duodenum with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV93DZ	Restriction of Duodenum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DV93ZZ	Restriction of Duodenum, Percutaneous Approach	PX	ICD-10-PCS
0DV94CZ	Restriction of Duodenum with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV94DZ	Restriction of Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV94ZZ	Restriction of Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DV97DZ	Restriction of Duodenum with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV97ZZ	Restriction of Duodenum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DV98DZ	Restriction of Duodenum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DV98ZZ	Restriction of Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVA0CZ	Restriction of Jejunum with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVA0DZ	Restriction of Jejunum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVA0ZZ	Restriction of Jejunum, Open Approach	PX	ICD-10-PCS
0DVA3CZ	Restriction of Jejunum with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVA3DZ	Restriction of Jejunum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVA3ZZ	Restriction of Jejunum, Percutaneous Approach	PX	ICD-10-PCS
0DVA4CZ	Restriction of Jejunum with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVA4DZ	Restriction of Jejunum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVA4ZZ	Restriction of Jejunum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVA7DZ	Restriction of Jejunum with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVA7ZZ	Restriction of Jejunum, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DVA8DZ	Restriction of Jejunum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVA8ZZ	Restriction of Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVB0CZ	Restriction of Ileum with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVB0DZ	Restriction of Ileum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVB0ZZ	Restriction of Ileum, Open Approach	PX	ICD-10-PCS
0DVB3CZ	Restriction of Ileum with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVB3DZ	Restriction of Ileum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVB3ZZ	Restriction of Ileum, Percutaneous Approach	PX	ICD-10-PCS
0DVB4CZ	Restriction of Ileum with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVB4DZ	Restriction of Ileum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVB4ZZ	Restriction of Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVB7DZ	Restriction of Ileum with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVB7ZZ	Restriction of Ileum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVB8DZ	Restriction of Ileum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVB8ZZ	Restriction of Ileum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVC0CZ	Restriction of Ileocecal Valve with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVC0DZ	Restriction of Ileocecal Valve with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVC0ZZ	Restriction of Ileocecal Valve, Open Approach	PX	ICD-10-PCS
0DVC3CZ	Restriction of Ileocecal Valve with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVC3DZ	Restriction of Ileocecal Valve with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVC3ZZ	Restriction of Ileocecal Valve, Percutaneous Approach	PX	ICD-10-PCS
0DVC4CZ	Restriction of Ileocecal Valve with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVC4DZ	Restriction of Ileocecal Valve with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVC4ZZ	Restriction of Ileocecal Valve, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVC7DZ	Restriction of Ileocecal Valve with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVC7ZZ	Restriction of Ileocecal Valve, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVC8DZ	Restriction of Ileocecal Valve with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVC8ZZ	Restriction of Ileocecal Valve, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVE0CZ	Restriction of Large Intestine with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVE0DZ	Restriction of Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVE0ZZ	Restriction of Large Intestine, Open Approach	PX	ICD-10-PCS
0DVE3CZ	Restriction of Large Intestine with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVE3DZ	Restriction of Large Intestine with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVE3ZZ	Restriction of Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DVE4CZ	Restriction of Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DVE4DZ	Restriction of Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVE4ZZ	Restriction of Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVE7DZ	Restriction of Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVE7ZZ	Restriction of Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVE8DZ	Restriction of Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVE8ZZ	Restriction of Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVF0CZ	Restriction of Right Large Intestine with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVF0DZ	Restriction of Right Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVF0ZZ	Restriction of Right Large Intestine, Open Approach	PX	ICD-10-PCS
0DVF3CZ	Restriction of Right Large Intestine with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVF3DZ	Restriction of Right Large Intestine with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVF3ZZ	Restriction of Right Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DVF4CZ	Restriction of Right Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVF4DZ	Restriction of Right Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVF4ZZ	Restriction of Right Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVF7DZ	Restriction of Right Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVF7ZZ	Restriction of Right Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVF8DZ	Restriction of Right Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVF8ZZ	Restriction of Right Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVG0CZ	Restriction of Left Large Intestine with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVG0DZ	Restriction of Left Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVG0ZZ	Restriction of Left Large Intestine, Open Approach	PX	ICD-10-PCS
0DVG3CZ	Restriction of Left Large Intestine with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVG3DZ	Restriction of Left Large Intestine with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVG3ZZ	Restriction of Left Large Intestine, Percutaneous Approach	PX	ICD-10-PCS
0DVG4CZ	Restriction of Left Large Intestine with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVG4DZ	Restriction of Left Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVG4ZZ	Restriction of Left Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVG7DZ	Restriction of Left Large Intestine with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVG7ZZ	Restriction of Left Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DVG8DZ	Restriction of Left Large Intestine with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVG8ZZ	Restriction of Left Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVH0CZ	Restriction of Cecum with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVH0DZ	Restriction of Cecum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVH0ZZ	Restriction of Cecum, Open Approach	PX	ICD-10-PCS
0DVH3CZ	Restriction of Cecum with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVH3DZ	Restriction of Cecum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVH3ZZ	Restriction of Cecum, Percutaneous Approach	PX	ICD-10-PCS
0DVH4CZ	Restriction of Cecum with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVH4DZ	Restriction of Cecum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVH4ZZ	Restriction of Cecum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVH7DZ	Restriction of Cecum with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVH7ZZ	Restriction of Cecum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVH8DZ	Restriction of Cecum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVH8ZZ	Restriction of Cecum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVK0CZ	Restriction of Ascending Colon with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVK0DZ	Restriction of Ascending Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVK0ZZ	Restriction of Ascending Colon, Open Approach	PX	ICD-10-PCS
0DVK3CZ	Restriction of Ascending Colon with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVK3DZ	Restriction of Ascending Colon with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVK3ZZ	Restriction of Ascending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DVK4CZ	Restriction of Ascending Colon with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVK4DZ	Restriction of Ascending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVK4ZZ	Restriction of Ascending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVK7DZ	Restriction of Ascending Colon with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVK7ZZ	Restriction of Ascending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVK8DZ	Restriction of Ascending Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVK8ZZ	Restriction of Ascending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVL0CZ	Restriction of Transverse Colon with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVL0DZ	Restriction of Transverse Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVL0ZZ	Restriction of Transverse Colon, Open Approach	PX	ICD-10-PCS
0DVL3CZ	Restriction of Transverse Colon with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVL3DZ	Restriction of Transverse Colon with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DVL3ZZ	Restriction of Transverse Colon, Percutaneous Approach	PX	ICD-10-PCS
0DVL4CZ	Restriction of Transverse Colon with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVL4DZ	Restriction of Transverse Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVL4ZZ	Restriction of Transverse Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVL7DZ	Restriction of Transverse Colon with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVL7ZZ	Restriction of Transverse Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVL8DZ	Restriction of Transverse Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVL8ZZ	Restriction of Transverse Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVM0CZ	Restriction of Descending Colon with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVM0DZ	Restriction of Descending Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVM0ZZ	Restriction of Descending Colon, Open Approach	PX	ICD-10-PCS
0DVM3CZ	Restriction of Descending Colon with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVM3DZ	Restriction of Descending Colon with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVM3ZZ	Restriction of Descending Colon, Percutaneous Approach	PX	ICD-10-PCS
0DVM4CZ	Restriction of Descending Colon with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVM4DZ	Restriction of Descending Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVM4ZZ	Restriction of Descending Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVM7DZ	Restriction of Descending Colon with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVM7ZZ	Restriction of Descending Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVM8DZ	Restriction of Descending Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVM8ZZ	Restriction of Descending Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVN0CZ	Restriction of Sigmoid Colon with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVN0DZ	Restriction of Sigmoid Colon with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVN0ZZ	Restriction of Sigmoid Colon, Open Approach	PX	ICD-10-PCS
0DVN3CZ	Restriction of Sigmoid Colon with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVN3DZ	Restriction of Sigmoid Colon with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVN3ZZ	Restriction of Sigmoid Colon, Percutaneous Approach	PX	ICD-10-PCS
0DVN4CZ	Restriction of Sigmoid Colon with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVN4DZ	Restriction of Sigmoid Colon with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVN4ZZ	Restriction of Sigmoid Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVN7DZ	Restriction of Sigmoid Colon with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVN7ZZ	Restriction of Sigmoid Colon, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DVN8DZ	Restriction of Sigmoid Colon with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVN8ZZ	Restriction of Sigmoid Colon, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVP0CZ	Restriction of Rectum with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVP0DZ	Restriction of Rectum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVP0ZZ	Restriction of Rectum, Open Approach	PX	ICD-10-PCS
0DVP3CZ	Restriction of Rectum with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVP3DZ	Restriction of Rectum with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVP3ZZ	Restriction of Rectum, Percutaneous Approach	PX	ICD-10-PCS
0DVP4CZ	Restriction of Rectum with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVP4DZ	Restriction of Rectum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVP4ZZ	Restriction of Rectum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVP7DZ	Restriction of Rectum with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVP7ZZ	Restriction of Rectum, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVP8DZ	Restriction of Rectum with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVP8ZZ	Restriction of Rectum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVQ0CZ	Restriction of Anus with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0DVQ0DZ	Restriction of Anus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0DVQ0ZZ	Restriction of Anus, Open Approach	PX	ICD-10-PCS
0DVQ3CZ	Restriction of Anus with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVQ3DZ	Restriction of Anus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0DVQ3ZZ	Restriction of Anus, Percutaneous Approach	PX	ICD-10-PCS
0DVQ4CZ	Restriction of Anus with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVQ4DZ	Restriction of Anus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVQ4ZZ	Restriction of Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DVQ7DZ	Restriction of Anus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVQ7ZZ	Restriction of Anus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DVQ8DZ	Restriction of Anus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVQ8ZZ	Restriction of Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DVQXCZ	Restriction of Anus with Extraluminal Device, External Approach	PX	ICD-10-PCS
0DVQXDZ	Restriction of Anus with Intraluminal Device, External Approach	PX	ICD-10-PCS
0DVQXZZ	Restriction of Anus, External Approach	PX	ICD-10-PCS
0DW000Z	Revision of Drainage Device in Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DW002Z	Revision of Monitoring Device in Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DW003Z	Revision of Infusion Device in Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DW007Z	Revision of Autologous Tissue Substitute in Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DW00CZ	Revision of Extraluminal Device in Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DW00DZ	Revision of Intraluminal Device in Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DW00JZ	Revision of Synthetic Substitute in Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DW00KZ	Revision of Nonautologous Tissue Substitute in Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DW00UZ	Revision of Feeding Device in Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DW00YZ	Revision of Other Device in Upper Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DW030Z	Revision of Drainage Device in Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DW032Z	Revision of Monitoring Device in Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DW033Z	Revision of Infusion Device in Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DW037Z	Revision of Autologous Tissue Substitute in Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DW03CZ	Revision of Extraluminal Device in Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DW03DZ	Revision of Intraluminal Device in Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DW03JZ	Revision of Synthetic Substitute in Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DW03KZ	Revision of Nonautologous Tissue Substitute in Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DW03UZ	Revision of Feeding Device in Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DW03YZ	Revision of Other Device in Upper Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DW040Z	Revision of Drainage Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW042Z	Revision of Monitoring Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW043Z	Revision of Infusion Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW047Z	Revision of Autologous Tissue Substitute in Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW04CZ	Revision of Extraluminal Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW04DZ	Revision of Intraluminal Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW04JZ	Revision of Synthetic Substitute in Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW04KZ	Revision of Nonautologous Tissue Substitute in Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW04UZ	Revision of Feeding Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW04YZ	Revision of Other Device in Upper Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW072Z	Revision of Monitoring Device in Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW073Z	Revision of Infusion Device in Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DW077Z	Revision of Autologous Tissue Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW07CZ	Revision of Extraluminal Device in Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW07DZ	Revision of Intraluminal Device in Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW07JZ	Revision of Synthetic Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW07KZ	Revision of Nonautologous Tissue Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW082Z	Revision of Monitoring Device in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW083Z	Revision of Infusion Device in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW087Z	Revision of Autologous Tissue Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW08CZ	Revision of Extraluminal Device in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW08DZ	Revision of Intraluminal Device in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW08JZ	Revision of Synthetic Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW08KZ	Revision of Nonautologous Tissue Substitute in Upper Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW50YZ	Revision of Other Device in Esophagus, Open Approach	PX	ICD-10-PCS
0DW53YZ	Revision of Other Device in Esophagus, Percutaneous Approach	PX	ICD-10-PCS
0DW54YZ	Revision of Other Device in Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW57DZ	Revision of Intraluminal Device in Esophagus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW58DZ	Revision of Intraluminal Device in Esophagus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW600Z	Revision of Drainage Device in Stomach, Open Approach	PX	ICD-10-PCS
0DW602Z	Revision of Monitoring Device in Stomach, Open Approach	PX	ICD-10-PCS
0DW603Z	Revision of Infusion Device in Stomach, Open Approach	PX	ICD-10-PCS
0DW607Z	Revision of Autologous Tissue Substitute in Stomach, Open Approach	PX	ICD-10-PCS
0DW60CZ	Revision of Extraluminal Device in Stomach, Open Approach	PX	ICD-10-PCS
0DW60DZ	Revision of Intraluminal Device in Stomach, Open Approach	PX	ICD-10-PCS
0DW60JZ	Revision of Synthetic Substitute in Stomach, Open Approach	PX	ICD-10-PCS
0DW60KZ	Revision of Nonautologous Tissue Substitute in Stomach, Open Approach	PX	ICD-10-PCS
0DW60MZ	Revision of Stimulator Lead in Stomach, Open Approach	PX	ICD-10-PCS
0DW60UZ	Revision of Feeding Device in Stomach, Open Approach	PX	ICD-10-PCS
0DW60YZ	Revision of Other Device in Stomach, Open Approach	PX	ICD-10-PCS
0DW630Z	Revision of Drainage Device in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DW632Z	Revision of Monitoring Device in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DW633Z	Revision of Infusion Device in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DW637Z	Revision of Autologous Tissue Substitute in Stomach, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DW63CZ	Revision of Extraluminal Device in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DW63DZ	Revision of Intraluminal Device in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DW63JZ	Revision of Synthetic Substitute in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DW63KZ	Revision of Nonautologous Tissue Substitute in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DW63MZ	Revision of Stimulator Lead in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DW63UZ	Revision of Feeding Device in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DW63YZ	Revision of Other Device in Stomach, Percutaneous Approach	PX	ICD-10-PCS
0DW640Z	Revision of Drainage Device in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW642Z	Revision of Monitoring Device in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW643Z	Revision of Infusion Device in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW647Z	Revision of Autologous Tissue Substitute in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW64CZ	Revision of Extraluminal Device in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW64DZ	Revision of Intraluminal Device in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW64JZ	Revision of Synthetic Substitute in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW64KZ	Revision of Nonautologous Tissue Substitute in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW64MZ	Revision of Stimulator Lead in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW64UZ	Revision of Feeding Device in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW64YZ	Revision of Other Device in Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW672Z	Revision of Monitoring Device in Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW673Z	Revision of Infusion Device in Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW677Z	Revision of Autologous Tissue Substitute in Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW67CZ	Revision of Extraluminal Device in Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW67DZ	Revision of Intraluminal Device in Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW67JZ	Revision of Synthetic Substitute in Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW67KZ	Revision of Nonautologous Tissue Substitute in Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW67YZ	Revision of Other Device in Stomach, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW682Z	Revision of Monitoring Device in Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW683Z	Revision of Infusion Device in Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW687Z	Revision of Autologous Tissue Substitute in Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW68CZ	Revision of Extraluminal Device in Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW68DZ	Revision of Intraluminal Device in Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW68JZ	Revision of Synthetic Substitute in Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DW68KZ	Revision of Nonautologous Tissue Substitute in Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW68YZ	Revision of Other Device in Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW807Z	Revision of Autologous Tissue Substitute in Small Intestine, Open Approach	PX	ICD-10-PCS
0DW80JZ	Revision of Synthetic Substitute in Small Intestine, Open Approach	PX	ICD-10-PCS
0DW80KZ	Revision of Nonautologous Tissue Substitute in Small Intestine, Open Approach	PX	ICD-10-PCS
0DW847Z	Revision of Autologous Tissue Substitute in Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW84JZ	Revision of Synthetic Substitute in Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW84KZ	Revision of Nonautologous Tissue Substitute in Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DW877Z	Revision of Autologous Tissue Substitute in Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW87JZ	Revision of Synthetic Substitute in Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW87KZ	Revision of Nonautologous Tissue Substitute in Small Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DW887Z	Revision of Autologous Tissue Substitute in Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW88JZ	Revision of Synthetic Substitute in Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DW88KZ	Revision of Nonautologous Tissue Substitute in Small Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWD00Z	Revision of Drainage Device in Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DWD02Z	Revision of Monitoring Device in Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DWD03Z	Revision of Infusion Device in Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DWD07Z	Revision of Autologous Tissue Substitute in Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DWD0CZ	Revision of Extraluminal Device in Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DWD0DZ	Revision of Intraluminal Device in Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DWD0JZ	Revision of Synthetic Substitute in Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DWD0KZ	Revision of Nonautologous Tissue Substitute in Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DWD0UZ	Revision of Feeding Device in Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DWD0YZ	Revision of Other Device in Lower Intestinal Tract, Open Approach	PX	ICD-10-PCS
0DWD30Z	Revision of Drainage Device in Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DWD32Z	Revision of Monitoring Device in Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DWD33Z	Revision of Infusion Device in Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DWD37Z	Revision of Autologous Tissue Substitute in Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DWD3CZ	Revision of Extraluminal Device in Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DWD3DZ	Revision of Intraluminal Device in Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DWD3JZ	Revision of Synthetic Substitute in Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DWD3KZ	Revision of Nonautologous Tissue Substitute in Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DWD3UZ	Revision of Feeding Device in Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DWD3YZ	Revision of Other Device in Lower Intestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0DWD40Z	Revision of Drainage Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWD42Z	Revision of Monitoring Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWD43Z	Revision of Infusion Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWD47Z	Revision of Autologous Tissue Substitute in Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWD4CZ	Revision of Extraluminal Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWD4DZ	Revision of Intraluminal Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWD4JZ	Revision of Synthetic Substitute in Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWD4KZ	Revision of Nonautologous Tissue Substitute in Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWD4UZ	Revision of Feeding Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWD4YZ	Revision of Other Device in Lower Intestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWD72Z	Revision of Monitoring Device in Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWD73Z	Revision of Infusion Device in Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWD77Z	Revision of Autologous Tissue Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWD7CZ	Revision of Extraluminal Device in Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWD7DZ	Revision of Intraluminal Device in Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWD7JZ	Revision of Synthetic Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWD7KZ	Revision of Nonautologous Tissue Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWD82Z	Revision of Monitoring Device in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DWD83Z	Revision of Infusion Device in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWD87Z	Revision of Autologous Tissue Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWD8CZ	Revision of Extraluminal Device in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWD8DZ	Revision of Intraluminal Device in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWD8JZ	Revision of Synthetic Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWD8KZ	Revision of Nonautologous Tissue Substitute in Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWE07Z	Revision of Autologous Tissue Substitute in Large Intestine, Open Approach	PX	ICD-10-PCS
0DWE0JZ	Revision of Synthetic Substitute in Large Intestine, Open Approach	PX	ICD-10-PCS
0DWE0KZ	Revision of Nonautologous Tissue Substitute in Large Intestine, Open Approach	PX	ICD-10-PCS
0DWE47Z	Revision of Autologous Tissue Substitute in Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWE4JZ	Revision of Synthetic Substitute in Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWE4KZ	Revision of Nonautologous Tissue Substitute in Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWE77Z	Revision of Autologous Tissue Substitute in Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWE7JZ	Revision of Synthetic Substitute in Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWE7KZ	Revision of Nonautologous Tissue Substitute in Large Intestine, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWE87Z	Revision of Autologous Tissue Substitute in Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWE8JZ	Revision of Synthetic Substitute in Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWE8KZ	Revision of Nonautologous Tissue Substitute in Large Intestine, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWQ0LZ	Revision of Artificial Sphincter in Anus, Open Approach	PX	ICD-10-PCS
0DWQ3LZ	Revision of Artificial Sphincter in Anus, Percutaneous Approach	PX	ICD-10-PCS
0DWQ4LZ	Revision of Artificial Sphincter in Anus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWQ7LZ	Revision of Artificial Sphincter in Anus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0DWQ8LZ	Revision of Artificial Sphincter in Anus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0DWR0MZ	Revision of Stimulator Lead in Anal Sphincter, Open Approach	PX	ICD-10-PCS
0DWR3MZ	Revision of Stimulator Lead in Anal Sphincter, Percutaneous Approach	PX	ICD-10-PCS
0DWR4MZ	Revision of Stimulator Lead in Anal Sphincter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWU00Z	Revision of Drainage Device in Omentum, Open Approach	PX	ICD-10-PCS
0DWU07Z	Revision of Autologous Tissue Substitute in Omentum, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DWU0JZ	Revision of Synthetic Substitute in Omentum, Open Approach	PX	ICD-10-PCS
0DWU0KZ	Revision of Nonautologous Tissue Substitute in Omentum, Open Approach	PX	ICD-10-PCS
0DWU37Z	Revision of Autologous Tissue Substitute in Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DWU3JZ	Revision of Synthetic Substitute in Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DWU3KZ	Revision of Nonautologous Tissue Substitute in Omentum, Percutaneous Approach	PX	ICD-10-PCS
0DWU40Z	Revision of Drainage Device in Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWU47Z	Revision of Autologous Tissue Substitute in Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWU4JZ	Revision of Synthetic Substitute in Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWU4KZ	Revision of Nonautologous Tissue Substitute in Omentum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWV00Z	Revision of Drainage Device in Mesentery, Open Approach	PX	ICD-10-PCS
0DWV07Z	Revision of Autologous Tissue Substitute in Mesentery, Open Approach	PX	ICD-10-PCS
0DWV0JZ	Revision of Synthetic Substitute in Mesentery, Open Approach	PX	ICD-10-PCS
0DWV0KZ	Revision of Nonautologous Tissue Substitute in Mesentery, Open Approach	PX	ICD-10-PCS
0DWV37Z	Revision of Autologous Tissue Substitute in Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DWV3JZ	Revision of Synthetic Substitute in Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DWV3KZ	Revision of Nonautologous Tissue Substitute in Mesentery, Percutaneous Approach	PX	ICD-10-PCS
0DWV40Z	Revision of Drainage Device in Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWV47Z	Revision of Autologous Tissue Substitute in Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWV4JZ	Revision of Synthetic Substitute in Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWV4KZ	Revision of Nonautologous Tissue Substitute in Mesentery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWW00Z	Revision of Drainage Device in Peritoneum, Open Approach	PX	ICD-10-PCS
0DWW07Z	Revision of Autologous Tissue Substitute in Peritoneum, Open Approach	PX	ICD-10-PCS
0DWW0JZ	Revision of Synthetic Substitute in Peritoneum, Open Approach	PX	ICD-10-PCS
0DWW0KZ	Revision of Nonautologous Tissue Substitute in Peritoneum, Open Approach	PX	ICD-10-PCS
0DWW37Z	Revision of Autologous Tissue Substitute in Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DWW3JZ	Revision of Synthetic Substitute in Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DWW3KZ	Revision of Nonautologous Tissue Substitute in Peritoneum, Percutaneous Approach	PX	ICD-10-PCS
0DWW40Z	Revision of Drainage Device in Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWW47Z	Revision of Autologous Tissue Substitute in Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWW4JZ	Revision of Synthetic Substitute in Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DWW4KZ	Revision of Nonautologous Tissue Substitute in Peritoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DX60Z5	Transfer Stomach to Esophagus, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0DX64Z5	Transfer Stomach to Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DX80Z5	Transfer Small Intestine to Esophagus, Open Approach	PX	ICD-10-PCS
0DX80ZB	Transfer Small Intestine to Bladder, Open Approach	PX	ICD-10-PCS
0DX80ZC	Transfer Small Intestine to Right Ureter, Open Approach	PX	ICD-10-PCS
0DX80ZD	Transfer Small Intestine to Left Ureter, Open Approach	PX	ICD-10-PCS
0DX80ZF	Transfer Small Intestine to Bilateral Ureters, Open Approach	PX	ICD-10-PCS
0DX84Z5	Transfer Small Intestine to Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DX84ZB	Transfer Small Intestine to Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DX84ZC	Transfer Small Intestine to Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DX84ZD	Transfer Small Intestine to Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DX84ZF	Transfer Small Intestine to Bilateral Ureters, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DXE0Z5	Transfer Large Intestine to Esophagus, Open Approach	PX	ICD-10-PCS
0DXE0Z7	Transfer Large Intestine to Vagina, Open Approach	PX	ICD-10-PCS
0DXE0ZB	Transfer Large Intestine to Bladder, Open Approach	PX	ICD-10-PCS
0DXE4Z5	Transfer Large Intestine to Esophagus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DXE4Z7	Transfer Large Intestine to Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DXE4ZB	Transfer Large Intestine to Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0DXU0ZV	Transfer omentum to thoracic region, open approach	PX	ICD-10-PCS
0DXU0ZW	Transfer omentum to abdominal region, open approach	PX	ICD-10-PCS
0DXU0ZX	Transfer omentum to pelvic region, open approach	PX	ICD-10-PCS
0DXU0ZY	Transfer omentum to inguinal region, open approach	PX	ICD-10-PCS
0DXU4ZV	Transfer omentum to thoracic region, percutaneous endoscopic approach	PX	ICD-10-PCS
0DXU4ZW	Transfer omentum to abdominal region, percutaneous endoscopic approach	PX	ICD-10-PCS
0DXU4ZX	Transfer omentum to pelvic region, percutaneous endoscopic approach	PX	ICD-10-PCS
0DXU4ZY	Transfer omentum to inguinal region, percutaneous endoscopic approach	PX	ICD-10-PCS
0DY60Z0	Transplantation of Stomach, Allogeneic, Open Approach	PX	ICD-10-PCS
0DY60Z1	Transplantation of Stomach, Syngeneic, Open Approach	PX	ICD-10-PCS
0DY60Z2	Transplantation of Stomach, Zooplastic, Open Approach	PX	ICD-10-PCS
0DY80Z0	Transplantation of Small Intestine, Allogeneic, Open Approach	PX	ICD-10-PCS
0DY80Z1	Transplantation of Small Intestine, Syngeneic, Open Approach	PX	ICD-10-PCS
0DY80Z2	Transplantation of Small Intestine, Zooplastic, Open Approach	PX	ICD-10-PCS
0DYE0Z0	Transplantation of Large Intestine, Allogeneic, Open Approach	PX	ICD-10-PCS
0DYE0Z1	Transplantation of Large Intestine, Syngeneic, Open Approach	PX	ICD-10-PCS
0DYE0Z2	Transplantation of Large Intestine, Zooplastic, Open Approach	PX	ICD-10-PCS
0F140D3	Bypass Gallbladder to Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F140D4	Bypass Gallbladder to Stomach with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F140D5	Bypass Gallbladder to Right Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F140D6	Bypass Gallbladder to Left Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F140D7	Bypass Gallbladder to Caudate Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F140D8	Bypass Gallbladder to Cystic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F140D9	Bypass Gallbladder to Common Bile Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F140DB	Bypass Gallbladder to Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F140Z3	Bypass Gallbladder to Duodenum, Open Approach	PX	ICD-10-PCS
0F140Z4	Bypass Gallbladder to Stomach, Open Approach	PX	ICD-10-PCS
0F140Z5	Bypass Gallbladder to Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F140Z6	Bypass Gallbladder to Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F140Z7	Bypass Gallbladder to Caudate Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F140Z8	Bypass Gallbladder to Cystic Duct, Open Approach	PX	ICD-10-PCS
0F140Z9	Bypass Gallbladder to Common Bile Duct, Open Approach	PX	ICD-10-PCS
0F140ZB	Bypass Gallbladder to Small Intestine, Open Approach	PX	ICD-10-PCS
0F144D3	Bypass Gallbladder to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144D4	Bypass Gallbladder to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144D5	Bypass Gallbladder to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144D6	Bypass Gallbladder to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144D7	Bypass Gallbladder to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144D8	Bypass Gallbladder to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144D9	Bypass Gallbladder to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144DB	Bypass Gallbladder to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144Z3	Bypass Gallbladder to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144Z4	Bypass Gallbladder to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144Z5	Bypass Gallbladder to Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144Z6	Bypass Gallbladder to Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144Z7	Bypass Gallbladder to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144Z8	Bypass Gallbladder to Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144Z9	Bypass Gallbladder to Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F144ZB	Bypass Gallbladder to Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F150D3	Bypass Right Hepatic Duct to Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F150D4	Bypass Right Hepatic Duct to Stomach with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F150D5	Bypass Right Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F150D6	Bypass Right Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F150D7	Bypass Right Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F150D8	Bypass Right Hepatic Duct to Cystic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F150D9	Bypass Right Hepatic Duct to Common Bile Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F150DB	Bypass Right Hepatic Duct to Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F150Z3	Bypass Right Hepatic Duct to Duodenum, Open Approach	PX	ICD-10-PCS
0F150Z4	Bypass Right Hepatic Duct to Stomach, Open Approach	PX	ICD-10-PCS
0F150Z5	Bypass Right Hepatic Duct to Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F150Z6	Bypass Right Hepatic Duct to Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F150Z7	Bypass Right Hepatic Duct to Caudate Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F150Z8	Bypass Right Hepatic Duct to Cystic Duct, Open Approach	PX	ICD-10-PCS
0F150Z9	Bypass Right Hepatic Duct to Common Bile Duct, Open Approach	PX	ICD-10-PCS
0F150ZB	Bypass Right Hepatic Duct to Small Intestine, Open Approach	PX	ICD-10-PCS
0F154D3	Bypass Right Hepatic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154D4	Bypass Right Hepatic Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154D5	Bypass Right Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154D6	Bypass Right Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154D7	Bypass Right Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154D8	Bypass Right Hepatic Duct to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154D9	Bypass Right Hepatic Duct to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154DB	Bypass Right Hepatic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154Z3	Bypass Right Hepatic Duct to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154Z4	Bypass Right Hepatic Duct to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154Z5	Bypass Right Hepatic Duct to Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154Z6	Bypass Right Hepatic Duct to Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154Z7	Bypass Right Hepatic Duct to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154Z8	Bypass Right Hepatic Duct to Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154Z9	Bypass Right Hepatic Duct to Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F154ZB	Bypass Right Hepatic Duct to Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F160D3	Bypass Left Hepatic Duct to Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F160D4	Bypass Left Hepatic Duct to Stomach with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F160D5	Bypass Left Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F160D6	Bypass Left Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F160D7	Bypass Left Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F160D8	Bypass Left Hepatic Duct to Cystic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F160D9	Bypass Left Hepatic Duct to Common Bile Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F160DB	Bypass Left Hepatic Duct to Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F160Z3	Bypass Left Hepatic Duct to Duodenum, Open Approach	PX	ICD-10-PCS
0F160Z4	Bypass Left Hepatic Duct to Stomach, Open Approach	PX	ICD-10-PCS
0F160Z5	Bypass Left Hepatic Duct to Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F160Z6	Bypass Left Hepatic Duct to Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F160Z7	Bypass Left Hepatic Duct to Caudate Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F160Z8	Bypass Left Hepatic Duct to Cystic Duct, Open Approach	PX	ICD-10-PCS
0F160Z9	Bypass Left Hepatic Duct to Common Bile Duct, Open Approach	PX	ICD-10-PCS
0F160ZB	Bypass Left Hepatic Duct to Small Intestine, Open Approach	PX	ICD-10-PCS
0F164D3	Bypass Left Hepatic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164D4	Bypass Left Hepatic Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164D5	Bypass Left Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164D6	Bypass Left Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164D7	Bypass Left Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164D8	Bypass Left Hepatic Duct to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164D9	Bypass Left Hepatic Duct to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164DB	Bypass Left Hepatic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164Z3	Bypass Left Hepatic Duct to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164Z4	Bypass Left Hepatic Duct to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164Z5	Bypass Left Hepatic Duct to Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164Z6	Bypass Left Hepatic Duct to Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164Z7	Bypass Left Hepatic Duct to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F164Z8	Bypass Left Hepatic Duct to Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164Z9	Bypass Left Hepatic Duct to Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F164ZB	Bypass Left Hepatic Duct to Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F170D3	Bypass Common Hepatic Duct to Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F170D4	Bypass Common Hepatic Duct to Stomach with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F170D5	Bypass Common Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F170D6	Bypass Common Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F170D7	Bypass Common Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F170D8	Bypass Common Hepatic Duct to Cystic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F170D9	Bypass Common Hepatic Duct to Common Bile Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F170DB	Bypass Common Hepatic Duct to Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F170Z3	Bypass Common Hepatic Duct to Duodenum, Open Approach	PX	ICD-10-PCS
0F170Z4	Bypass Common Hepatic Duct to Stomach, Open Approach	PX	ICD-10-PCS
0F170Z5	Bypass Common Hepatic Duct to Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F170Z6	Bypass Common Hepatic Duct to Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F170Z7	Bypass Common Hepatic Duct to Caudate Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F170Z8	Bypass Common Hepatic Duct to Cystic Duct, Open Approach	PX	ICD-10-PCS
0F170Z9	Bypass Common Hepatic Duct to Common Bile Duct, Open Approach	PX	ICD-10-PCS
0F170ZB	Bypass Common Hepatic Duct to Small Intestine, Open Approach	PX	ICD-10-PCS
0F174D3	Bypass Common Hepatic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174D4	Bypass Common Hepatic Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174D5	Bypass Common Hepatic Duct to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174D6	Bypass Common Hepatic Duct to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174D7	Bypass Common Hepatic Duct to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174D8	Bypass Common Hepatic Duct to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174D9	Bypass Common Hepatic Duct to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174DB	Bypass Common Hepatic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F174Z3	Bypass Common Hepatic Duct to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174Z4	Bypass Common Hepatic Duct to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174Z5	Bypass Common Hepatic Duct to Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174Z6	Bypass Common Hepatic Duct to Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174Z7	Bypass Common Hepatic Duct to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174Z8	Bypass Common Hepatic Duct to Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174Z9	Bypass Common Hepatic Duct to Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F174ZB	Bypass Common Hepatic Duct to Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F180D3	Bypass Cystic Duct to Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F180D4	Bypass Cystic Duct to Stomach with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F180D5	Bypass Cystic Duct to Right Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F180D6	Bypass Cystic Duct to Left Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F180D7	Bypass Cystic Duct to Caudate Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F180D8	Bypass Cystic Duct to Cystic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F180D9	Bypass Cystic Duct to Common Bile Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F180DB	Bypass Cystic Duct to Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F180Z3	Bypass Cystic Duct to Duodenum, Open Approach	PX	ICD-10-PCS
0F180Z4	Bypass Cystic Duct to Stomach, Open Approach	PX	ICD-10-PCS
0F180Z5	Bypass Cystic Duct to Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F180Z6	Bypass Cystic Duct to Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F180Z7	Bypass Cystic Duct to Caudate Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F180Z8	Bypass Cystic Duct to Cystic Duct, Open Approach	PX	ICD-10-PCS
0F180Z9	Bypass Cystic Duct to Common Bile Duct, Open Approach	PX	ICD-10-PCS
0F180ZB	Bypass Cystic Duct to Small Intestine, Open Approach	PX	ICD-10-PCS
0F184D3	Bypass Cystic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184D4	Bypass Cystic Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184D5	Bypass Cystic Duct to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184D6	Bypass Cystic Duct to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184D7	Bypass Cystic Duct to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F184D8	Bypass Cystic Duct to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184D9	Bypass Cystic Duct to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184DB	Bypass Cystic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184Z3	Bypass Cystic Duct to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184Z4	Bypass Cystic Duct to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184Z5	Bypass Cystic Duct to Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184Z6	Bypass Cystic Duct to Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184Z7	Bypass Cystic Duct to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184Z8	Bypass Cystic Duct to Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184Z9	Bypass Cystic Duct to Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F184ZB	Bypass Cystic Duct to Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F190D3	Bypass Common Bile Duct to Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F190D4	Bypass Common Bile Duct to Stomach with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F190D5	Bypass Common Bile Duct to Right Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F190D6	Bypass Common Bile Duct to Left Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F190D7	Bypass Common Bile Duct to Caudate Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F190D8	Bypass Common Bile Duct to Cystic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F190D9	Bypass Common Bile Duct to Common Bile Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F190DB	Bypass Common Bile Duct to Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F190Z3	Bypass Common Bile Duct to Duodenum, Open Approach	PX	ICD-10-PCS
0F190Z4	Bypass Common Bile Duct to Stomach, Open Approach	PX	ICD-10-PCS
0F190Z5	Bypass Common Bile Duct to Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F190Z6	Bypass Common Bile Duct to Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F190Z7	Bypass Common Bile Duct to Caudate Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F190Z8	Bypass Common Bile Duct to Cystic Duct, Open Approach	PX	ICD-10-PCS
0F190Z9	Bypass Common Bile Duct to Common Bile Duct, Open Approach	PX	ICD-10-PCS
0F190ZB	Bypass Common Bile Duct to Small Intestine, Open Approach	PX	ICD-10-PCS
0F194D3	Bypass Common Bile Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194D4	Bypass Common Bile Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194D5	Bypass Common Bile Duct to Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194D6	Bypass Common Bile Duct to Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F194D7	Bypass Common Bile Duct to Caudate Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194D8	Bypass Common Bile Duct to Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194D9	Bypass Common Bile Duct to Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194DB	Bypass Common Bile Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194Z3	Bypass Common Bile Duct to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194Z4	Bypass Common Bile Duct to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194Z5	Bypass Common Bile Duct to Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194Z6	Bypass Common Bile Duct to Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194Z7	Bypass Common Bile Duct to Caudate Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194Z8	Bypass Common Bile Duct to Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194Z9	Bypass Common Bile Duct to Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F194ZB	Bypass Common Bile Duct to Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1D0D3	Bypass Pancreatic Duct to Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F1D0D4	Bypass Pancreatic Duct to Stomach with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F1D0DB	Bypass Pancreatic Duct to Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F1D0DC	Bypass Pancreatic Duct to Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F1D0Z3	Bypass Pancreatic Duct to Duodenum, Open Approach	PX	ICD-10-PCS
0F1D0Z4	Bypass Pancreatic Duct to Stomach, Open Approach	PX	ICD-10-PCS
0F1D0ZB	Bypass Pancreatic Duct to Small Intestine, Open Approach	PX	ICD-10-PCS
0F1D0ZC	Bypass Pancreatic Duct to Large Intestine, Open Approach	PX	ICD-10-PCS
0F1D4D3	Bypass Pancreatic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1D4D4	Bypass Pancreatic Duct to Stomach with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1D4DB	Bypass Pancreatic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1D4DC	Bypass Pancreatic Duct to Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1D4Z3	Bypass Pancreatic Duct to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1D4Z4	Bypass Pancreatic Duct to Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1D4ZB	Bypass Pancreatic Duct to Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1D4ZC	Bypass Pancreatic Duct to Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1F0D3	Bypass Accessory Pancreatic Duct to Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F1F0DB	Bypass Accessory Pancreatic Duct to Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F1F0DC	Bypass Accessory Pancreatic Duct to Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F1F0Z3	Bypass Accessory Pancreatic Duct to Duodenum, Open Approach	PX	ICD-10-PCS
0F1F0ZB	Bypass Accessory Pancreatic Duct to Small Intestine, Open Approach	PX	ICD-10-PCS
0F1F0ZC	Bypass Accessory Pancreatic Duct to Large Intestine, Open Approach	PX	ICD-10-PCS
0F1F4D3	Bypass Accessory Pancreatic Duct to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1F4DB	Bypass Accessory Pancreatic Duct to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1F4DC	Bypass Accessory Pancreatic Duct to Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1F4Z3	Bypass Accessory Pancreatic Duct to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1F4ZB	Bypass Accessory Pancreatic Duct to Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1F4ZC	Bypass Accessory Pancreatic Duct to Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1G0D3	Bypass Pancreas to Duodenum with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F1G0DB	Bypass Pancreas to Small Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F1G0DC	Bypass Pancreas to Large Intestine with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F1G0Z3	Bypass Pancreas to Duodenum, Open Approach	PX	ICD-10-PCS
0F1G0ZB	Bypass Pancreas to Small Intestine, Open Approach	PX	ICD-10-PCS
0F1G0ZC	Bypass Pancreas to Large Intestine, Open Approach	PX	ICD-10-PCS
0F1G4D3	Bypass Pancreas to Duodenum with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1G4DB	Bypass Pancreas to Small Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1G4DC	Bypass Pancreas to Large Intestine with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1G4Z3	Bypass Pancreas to Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1G4ZB	Bypass Pancreas to Small Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F1G4ZC	Bypass Pancreas to Large Intestine, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F500Z3	Destruction of Liver using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F500ZF	Destruction of Liver using Irreversible Electroporation, Open Approach	PX	ICD-10-PCS
0F500ZZ	Destruction of Liver, Open Approach	PX	ICD-10-PCS
0F503Z3	Destruction of Liver using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F503ZF	Destruction of Liver using Irreversible Electroporation, Percutaneous Approach	PX	ICD-10-PCS
0F503ZZ	Destruction of Liver, Percutaneous Approach	PX	ICD-10-PCS
0F504Z3	Destruction of Liver using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F504ZF	Destruction of Liver using Irreversible Electroporation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F504ZZ	Destruction of Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F510Z3	Destruction of Right Lobe Liver using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F510ZF	Destruction of Right Lobe Liver using Irreversible Electroporation, Open Approach	PX	ICD-10-PCS
0F510ZZ	Destruction of Right Lobe Liver, Open Approach	PX	ICD-10-PCS
0F513Z3	Destruction of Right Lobe Liver using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F513ZF	Destruction of Right Lobe Liver using Irreversible Electroporation, Percutaneous Approach	PX	ICD-10-PCS
0F513ZZ	Destruction of Right Lobe Liver, Percutaneous Approach	PX	ICD-10-PCS
0F514Z3	Destruction of Right Lobe Liver using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F514ZF	Destruction of Right Lobe Liver using Irreversible Electroporation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F514ZZ	Destruction of Right Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F520Z3	Destruction of Left Lobe Liver using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F520ZF	Destruction of Left Lobe Liver using Irreversible Electroporation, Open Approach	PX	ICD-10-PCS
0F520ZZ	Destruction of Left Lobe Liver, Open Approach	PX	ICD-10-PCS
0F523Z3	Destruction of Left Lobe Liver using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F523ZF	Destruction of Left Lobe Liver using Irreversible Electroporation, Percutaneous Approach	PX	ICD-10-PCS
0F523ZZ	Destruction of Left Lobe Liver, Percutaneous Approach	PX	ICD-10-PCS
0F524Z3	Destruction of Left Lobe Liver using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F524ZF	Destruction of Left Lobe Liver using Irreversible Electroporation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F524ZZ	Destruction of Left Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F540Z3	Destruction of Gallbladder using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F540ZZ	Destruction of Gallbladder, Open Approach	PX	ICD-10-PCS
0F543Z3	Destruction of Gallbladder using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F543ZZ	Destruction of Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0F544Z3	Destruction of Gallbladder using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F544ZZ	Destruction of Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F548ZZ	Destruction of Gallbladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0F550Z3	Destruction of Right Hepatic Duct using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F550ZZ	Destruction of Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F553Z3	Destruction of Right Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F553ZZ	Destruction of Right Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0F554Z3	Destruction of Right Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F554ZZ	Destruction of Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F557ZZ	Destruction of Right Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F560Z3	Destruction of Left Hepatic Duct using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F560ZZ	Destruction of Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F563Z3	Destruction of Left Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F563ZZ	Destruction of Left Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0F564Z3	Destruction of Left Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F564ZZ	Destruction of Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F567ZZ	Destruction of Left Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F570Z3	Destruction of Common Hepatic Duct using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F570ZZ	Destruction of Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F573Z3	Destruction of Common Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F573ZZ	Destruction of Common Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0F574Z3	Destruction of Common Hepatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F574ZZ	Destruction of Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F577ZZ	Destruction of Common Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F580Z3	Destruction of Cystic Duct using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F580ZZ	Destruction of Cystic Duct, Open Approach	PX	ICD-10-PCS
0F583Z3	Destruction of Cystic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F583ZZ	Destruction of Cystic Duct, Percutaneous Approach	PX	ICD-10-PCS
0F584Z3	Destruction of Cystic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F584ZZ	Destruction of Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F587ZZ	Destruction of Cystic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F590Z3	Destruction of Common Bile Duct using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F590ZZ	Destruction of Common Bile Duct, Open Approach	PX	ICD-10-PCS
0F593Z3	Destruction of Common Bile Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F593ZZ	Destruction of Common Bile Duct, Percutaneous Approach	PX	ICD-10-PCS
0F594Z3	Destruction of Common Bile Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F594ZZ	Destruction of Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F597ZZ	Destruction of Common Bile Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F5C0Z3	Destruction of Ampulla of Vater using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F5C0ZZ	Destruction of Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0F5C3Z3	Destruction of Ampulla of Vater using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F5C3ZZ	Destruction of Ampulla of Vater, Percutaneous Approach	PX	ICD-10-PCS
0F5C4Z3	Destruction of Ampulla of Vater using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F5C4ZZ	Destruction of Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F5C7ZZ	Destruction of Ampulla of Vater, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F5D0Z3	Destruction of Pancreatic Duct using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F5D0ZZ	Destruction of Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0F5D3Z3	Destruction of Pancreatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F5D3ZZ	Destruction of Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0F5D4Z3	Destruction of Pancreatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F5D4ZZ	Destruction of Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F5D7ZZ	Destruction of Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F5F0Z3	Destruction of Accessory Pancreatic Duct using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F5F0ZZ	Destruction of Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0F5F3Z3	Destruction of Accessory Pancreatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F5F3ZZ	Destruction of Accessory Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0F5F4Z3	Destruction of Accessory Pancreatic Duct using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F5F4ZZ	Destruction of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F5F7ZZ	Destruction of Accessory Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F5G0Z3	Destruction of Pancreas using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0F5G0ZF	Destruction of Pancreas using Irreversible Electroporation, Open Approach	PX	ICD-10-PCS
0F5G0ZZ	Destruction of Pancreas, Open Approach	PX	ICD-10-PCS
0F5G3Z3	Destruction of Pancreas using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0F5G3ZF	Destruction of Pancreas using Irreversible Electroporation, Percutaneous Approach	PX	ICD-10-PCS
0F5G3ZZ	Destruction of Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0F5G4Z3	Destruction of Pancreas using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F5G4ZF	Destruction of Pancreas using Irreversible Electroporation, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F5G4ZZ	Destruction of Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F750DZ	Dilation of Right Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F750ZZ	Dilation of Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F754DZ	Dilation of Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F754ZZ	Dilation of Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F757ZZ	Dilation of Right Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F760DZ	Dilation of Left Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F760ZZ	Dilation of Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F764DZ	Dilation of Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F764ZZ	Dilation of Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F767ZZ	Dilation of Left Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F770DZ	Dilation of Common Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F770ZZ	Dilation of Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F774DZ	Dilation of Common Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F774ZZ	Dilation of Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F777ZZ	Dilation of Common Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F780DZ	Dilation of Cystic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F780ZZ	Dilation of Cystic Duct, Open Approach	PX	ICD-10-PCS
0F784DZ	Dilation of Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F784ZZ	Dilation of Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F787ZZ	Dilation of Cystic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F790DZ	Dilation of Common Bile Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F790ZZ	Dilation of Common Bile Duct, Open Approach	PX	ICD-10-PCS
0F794DZ	Dilation of Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F794ZZ	Dilation of Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F797ZZ	Dilation of Common Bile Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F7C0DZ	Dilation of Ampulla of Vater with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F7C0ZZ	Dilation of Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0F7C3DZ	Dilation of Ampulla of Vater with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0F7C3ZZ	Dilation of Ampulla of Vater, Percutaneous Approach	PX	ICD-10-PCS
0F7C4DZ	Dilation of Ampulla of Vater with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F7C4ZZ	Dilation of Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F7C7DZ	Dilation of Ampulla of Vater with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F7C7ZZ	Dilation of Ampulla of Vater, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F7D0DZ	Dilation of Pancreatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F7D0ZZ	Dilation of Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0F7D3DZ	Dilation of Pancreatic Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0F7D3ZZ	Dilation of Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0F7D4DZ	Dilation of Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F7D4ZZ	Dilation of Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F7D7ZZ	Dilation of Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F7F0DZ	Dilation of Accessory Pancreatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0F7F0ZZ	Dilation of Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0F7F3DZ	Dilation of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0F7F3ZZ	Dilation of Accessory Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0F7F4DZ	Dilation of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F7F4ZZ	Dilation of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F7F7DZ	Dilation of Accessory Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F7F7ZZ	Dilation of Accessory Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0F800ZZ	Division of Liver, Open Approach	PX	ICD-10-PCS
0F804ZZ	Division of Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F810ZZ	Division of Right Lobe Liver, Open Approach	PX	ICD-10-PCS
0F814ZZ	Division of Right Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F820ZZ	Division of Left Lobe Liver, Open Approach	PX	ICD-10-PCS
0F824ZZ	Division of Left Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F8G0ZZ	Division of Pancreas, Open Approach	PX	ICD-10-PCS
0F8G3ZZ	Division of Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0F8G4ZZ	Division of Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9000Z	Drainage of Liver with Drainage Device, Open Approach	PX	ICD-10-PCS
0F900ZZ	Drainage of Liver, Open Approach	PX	ICD-10-PCS
0F9040Z	Drainage of Liver with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F904ZZ	Drainage of Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9100Z	Drainage of Right Lobe Liver with Drainage Device, Open Approach	PX	ICD-10-PCS
0F910ZZ	Drainage of Right Lobe Liver, Open Approach	PX	ICD-10-PCS
0F9140Z	Drainage of Right Lobe Liver with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F914ZZ	Drainage of Right Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9200Z	Drainage of Left Lobe Liver with Drainage Device, Open Approach	PX	ICD-10-PCS
0F920ZZ	Drainage of Left Lobe Liver, Open Approach	PX	ICD-10-PCS
0F9240Z	Drainage of Left Lobe Liver with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F924ZZ	Drainage of Left Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9400Z	Drainage of Gallbladder with Drainage Device, Open Approach	PX	ICD-10-PCS
0F940ZZ	Drainage of Gallbladder, Open Approach	PX	ICD-10-PCS
0F9440Z	Drainage of Gallbladder with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F944ZZ	Drainage of Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9500Z	Drainage of Right Hepatic Duct with Drainage Device, Open Approach	PX	ICD-10-PCS
0F950ZZ	Drainage of Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F9540Z	Drainage of Right Hepatic Duct with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0F954ZZ	Drainage of Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9600Z	Drainage of Left Hepatic Duct with Drainage Device, Open Approach	PX	ICD-10-PCS
0F960ZZ	Drainage of Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F9640Z	Drainage of Left Hepatic Duct with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F964ZZ	Drainage of Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9700Z	Drainage of Common Hepatic Duct with Drainage Device, Open Approach	PX	ICD-10-PCS
0F970ZZ	Drainage of Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0F9740Z	Drainage of Common Hepatic Duct with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F974ZZ	Drainage of Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9800Z	Drainage of Cystic Duct with Drainage Device, Open Approach	PX	ICD-10-PCS
0F980ZZ	Drainage of Cystic Duct, Open Approach	PX	ICD-10-PCS
0F9840Z	Drainage of Cystic Duct with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F984ZZ	Drainage of Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9900Z	Drainage of Common Bile Duct with Drainage Device, Open Approach	PX	ICD-10-PCS
0F990ZZ	Drainage of Common Bile Duct, Open Approach	PX	ICD-10-PCS
0F9940Z	Drainage of Common Bile Duct with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F994ZZ	Drainage of Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9C00Z	Drainage of Ampulla of Vater with Drainage Device, Open Approach	PX	ICD-10-PCS
0F9C0ZZ	Drainage of Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0F9C40Z	Drainage of Ampulla of Vater with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9C4ZZ	Drainage of Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9D00Z	Drainage of Pancreatic Duct with Drainage Device, Open Approach	PX	ICD-10-PCS
0F9D0ZZ	Drainage of Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0F9D40Z	Drainage of Pancreatic Duct with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9D4ZZ	Drainage of Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9F00Z	Drainage of Accessory Pancreatic Duct with Drainage Device, Open Approach	PX	ICD-10-PCS
0F9F0ZZ	Drainage of Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0F9F40Z	Drainage of Accessory Pancreatic Duct with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9F4ZZ	Drainage of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9G00Z	Drainage of Pancreas with Drainage Device, Open Approach	PX	ICD-10-PCS
0F9G0ZZ	Drainage of Pancreas, Open Approach	PX	ICD-10-PCS
0F9G40Z	Drainage of Pancreas with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0F9G4ZZ	Drainage of Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FB00ZZ	Excision of Liver, Open Approach	PX	ICD-10-PCS
0FB03ZZ	Excision of Liver, Percutaneous Approach	PX	ICD-10-PCS
0FB04ZG	Excision of liver, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0FB04ZZ	Excision of Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FB10ZZ	Excision of Right Lobe Liver, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FB13ZZ	Excision of Right Lobe Liver, Percutaneous Approach	PX	ICD-10-PCS
0FB14ZG	Excision of right lobe liver, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0FB14ZZ	Excision of Right Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FB20ZZ	Excision of Left Lobe Liver, Open Approach	PX	ICD-10-PCS
0FB23ZZ	Excision of Left Lobe Liver, Percutaneous Approach	PX	ICD-10-PCS
0FB24ZG	Excision of left lobe liver, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0FB24ZZ	Excision of Left Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FB40ZZ	Excision of Gallbladder, Open Approach	PX	ICD-10-PCS
0FB43ZZ	Excision of Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FB44ZZ	Excision of Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FB48ZZ	Excision of Gallbladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FB50ZZ	Excision of Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FB53ZZ	Excision of Right Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FB54ZZ	Excision of Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FB57ZZ	Excision of Right Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FB60ZZ	Excision of Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FB63ZZ	Excision of Left Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FB64ZZ	Excision of Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FB67ZZ	Excision of Left Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FB70ZZ	Excision of Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FB73ZZ	Excision of Common Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FB74ZZ	Excision of Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FB77ZZ	Excision of Common Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FB80ZZ	Excision of Cystic Duct, Open Approach	PX	ICD-10-PCS
0FB83ZZ	Excision of Cystic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FB84ZZ	Excision of Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FB87ZZ	Excision of Cystic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FB90ZZ	Excision of Common Bile Duct, Open Approach	PX	ICD-10-PCS
0FB93ZZ	Excision of Common Bile Duct, Percutaneous Approach	PX	ICD-10-PCS
0FB94ZZ	Excision of Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FB97ZZ	Excision of Common Bile Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FBC0ZZ	Excision of Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0FBC3ZZ	Excision of Ampulla of Vater, Percutaneous Approach	PX	ICD-10-PCS
0FBC4ZZ	Excision of Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FBC7ZZ	Excision of Ampulla of Vater, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FBD0ZZ	Excision of Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FBD3ZZ	Excision of Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FBD4ZZ	Excision of Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FBD7ZZ	Excision of Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FBF0ZZ	Excision of Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FBF3ZZ	Excision of Accessory Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FBF4ZZ	Excision of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FBF7ZZ	Excision of Accessory Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FBG0ZZ	Excision of Pancreas, Open Approach	PX	ICD-10-PCS
0FBG3ZZ	Excision of Pancreas, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FBG4ZG	Excision of pancreas, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0FBG4ZZ	Excision of Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FBG8ZZ	Excision of Pancreas, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FC00ZZ	Extirpation of Matter from Liver, Open Approach	PX	ICD-10-PCS
0FC03ZZ	Extirpation of Matter from Liver, Percutaneous Approach	PX	ICD-10-PCS
0FC04ZZ	Extirpation of Matter from Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FC10ZZ	Extirpation of Matter from Right Lobe Liver, Open Approach	PX	ICD-10-PCS
0FC13ZZ	Extirpation of Matter from Right Lobe Liver, Percutaneous Approach	PX	ICD-10-PCS
0FC14ZZ	Extirpation of Matter from Right Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FC20ZZ	Extirpation of Matter from Left Lobe Liver, Open Approach	PX	ICD-10-PCS
0FC23ZZ	Extirpation of Matter from Left Lobe Liver, Percutaneous Approach	PX	ICD-10-PCS
0FC24ZZ	Extirpation of Matter from Left Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FC40ZZ	Extirpation of Matter from Gallbladder, Open Approach	PX	ICD-10-PCS
0FC43ZZ	Extirpation of Matter from Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FC44ZZ	Extirpation of Matter from Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FC48ZZ	Extirpation of Matter from Gallbladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FC50ZZ	Extirpation of Matter from Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FC54ZZ	Extirpation of Matter from Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FC60ZZ	Extirpation of Matter from Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FC64ZZ	Extirpation of Matter from Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FC70ZZ	Extirpation of Matter from Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FC74ZZ	Extirpation of Matter from Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FC80ZZ	Extirpation of Matter from Cystic Duct, Open Approach	PX	ICD-10-PCS
0FC84ZZ	Extirpation of Matter from Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FC90ZZ	Extirpation of Matter from Common Bile Duct, Open Approach	PX	ICD-10-PCS
0FC94ZZ	Extirpation of Matter from Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FCC0ZZ	Extirpation of Matter from Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0FCC3ZZ	Extirpation of Matter from Ampulla of Vater, Percutaneous Approach	PX	ICD-10-PCS
0FCC4ZZ	Extirpation of Matter from Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FCC7ZZ	Extirpation of Matter from Ampulla of Vater, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FCD0ZZ	Extirpation of Matter from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FCD4ZZ	Extirpation of Matter from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FCD7ZZ	Extirpation of Matter from Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FCF0ZZ	Extirpation of Matter from Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FCF4ZZ	Extirpation of Matter from Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FCF7ZZ	Extirpation of Matter from Accessory Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FCG0ZZ	Extirpation of Matter from Pancreas, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FCG3ZZ	Extirpation of Matter from Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FCG4ZZ	Extirpation of Matter from Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FF40ZZ	Fragmentation in Gallbladder, Open Approach	PX	ICD-10-PCS
0FF43ZZ	Fragmentation in Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FF44ZZ	Fragmentation in Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FF47ZZ	Fragmentation in Gallbladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FF50ZZ	Fragmentation in Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FF53ZZ	Fragmentation in Right Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FF54ZZ	Fragmentation in Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FF57ZZ	Fragmentation in Right Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FF60ZZ	Fragmentation in Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FF63ZZ	Fragmentation in Left Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FF64ZZ	Fragmentation in Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FF67ZZ	Fragmentation in Left Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FF70ZZ	Fragmentation in Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FF73ZZ	Fragmentation in Common Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FF74ZZ	Fragmentation in Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FF77ZZ	Fragmentation in Common Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FF80ZZ	Fragmentation in Cystic Duct, Open Approach	PX	ICD-10-PCS
0FF83ZZ	Fragmentation in Cystic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FF84ZZ	Fragmentation in Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FF87ZZ	Fragmentation in Cystic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FF90ZZ	Fragmentation in Common Bile Duct, Open Approach	PX	ICD-10-PCS
0FF93ZZ	Fragmentation in Common Bile Duct, Percutaneous Approach	PX	ICD-10-PCS
0FF94ZZ	Fragmentation in Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FF97ZZ	Fragmentation in Common Bile Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FFC0ZZ	Fragmentation in Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0FFC3ZZ	Fragmentation in Ampulla of Vater, Percutaneous Approach	PX	ICD-10-PCS
0FFC4ZZ	Fragmentation in Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FFC7ZZ	Fragmentation in Ampulla of Vater, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FFD0ZZ	Fragmentation in Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FFD3ZZ	Fragmentation in Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FFD4ZZ	Fragmentation in Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FFD7ZZ	Fragmentation in Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FFF0ZZ	Fragmentation in Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FFF3ZZ	Fragmentation in Accessory Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FFF4ZZ	Fragmentation in Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FFF7ZZ	Fragmentation in Accessory Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FH001Z	Insertion of Radioactive Element into Liver, Open Approach	PX	ICD-10-PCS
0FH003Z	Insertion of Infusion Device into Liver, Open Approach	PX	ICD-10-PCS
0FH00YZ	Insertion of Other Device into Liver, Open Approach	PX	ICD-10-PCS
0FH041Z	Insertion of Radioactive Element into Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FH043Z	Insertion of Infusion Device into Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FH04YZ	Insertion of Other Device into Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FH103Z	Insertion of Infusion Device into Right Lobe Liver, Open Approach	PX	ICD-10-PCS
0FH143Z	Insertion of Infusion Device into Right Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FH203Z	Insertion of Infusion Device into Left Lobe Liver, Open Approach	PX	ICD-10-PCS
0FH243Z	Insertion of Infusion Device into Left Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FH401Z	Insertion of Radioactive Element into Gallbladder, Open Approach	PX	ICD-10-PCS
0FH403Z	Insertion of Infusion Device into Gallbladder, Open Approach	PX	ICD-10-PCS
0FH40YZ	Insertion of Other Device into Gallbladder, Open Approach	PX	ICD-10-PCS
0FH441Z	Insertion of Radioactive Element into Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FH443Z	Insertion of Infusion Device into Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FH44YZ	Insertion of Other Device into Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHB01Z	Insertion of Radioactive Element into Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FHB03Z	Insertion of Infusion Device into Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FHB0DZ	Insertion of Intraluminal Device into Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FHB0YZ	Insertion of Other Device into Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FHB3DZ	Insertion of Intraluminal Device into Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FHB41Z	Insertion of Radioactive Element into Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHB43Z	Insertion of Infusion Device into Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHB4DZ	Insertion of Intraluminal Device into Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHB4YZ	Insertion of Other Device into Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHD01Z	Insertion of Radioactive Element into Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FHD03Z	Insertion of Infusion Device into Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FHD0DZ	Insertion of Intraluminal Device into Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FHD0YZ	Insertion of Other Device into Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FHD3DZ	Insertion of Intraluminal Device into Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FHD41Z	Insertion of Radioactive Element into Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHD43Z	Insertion of Infusion Device into Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHD4DZ	Insertion of Intraluminal Device into Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHD4YZ	Insertion of Other Device into Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHG01Z	Insertion of Radioactive Element into Pancreas, Open Approach	PX	ICD-10-PCS
0FHG03Z	Insertion of Infusion Device into Pancreas, Open Approach	PX	ICD-10-PCS
0FHG0YZ	Insertion of Other Device into Pancreas, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FHG41Z	Insertion of Radioactive Element into Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHG43Z	Insertion of Infusion Device into Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FHG4YZ	Insertion of Other Device into Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL50CZ	Occlusion of Right Hepatic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FL50DZ	Occlusion of Right Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FL50ZZ	Occlusion of Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FL54CZ	Occlusion of Right Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL54DZ	Occlusion of Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL54ZZ	Occlusion of Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL60CZ	Occlusion of Left Hepatic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FL60DZ	Occlusion of Left Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FL60ZZ	Occlusion of Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FL64CZ	Occlusion of Left Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL64DZ	Occlusion of Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL64ZZ	Occlusion of Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL70CZ	Occlusion of Common Hepatic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FL70DZ	Occlusion of Common Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FL70ZZ	Occlusion of Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FL74CZ	Occlusion of Common Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL74DZ	Occlusion of Common Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL74ZZ	Occlusion of Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL80CZ	Occlusion of Cystic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FL80DZ	Occlusion of Cystic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FL80ZZ	Occlusion of Cystic Duct, Open Approach	PX	ICD-10-PCS
0FL84CZ	Occlusion of Cystic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL84DZ	Occlusion of Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL84ZZ	Occlusion of Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL90CZ	Occlusion of Common Bile Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FL90DZ	Occlusion of Common Bile Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FL90ZZ	Occlusion of Common Bile Duct, Open Approach	PX	ICD-10-PCS
0FL94CZ	Occlusion of Common Bile Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL94DZ	Occlusion of Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FL94ZZ	Occlusion of Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FLC0CZ	Occlusion of Ampulla of Vater with Extraluminal Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FLC0DZ	Occlusion of Ampulla of Vater with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FLC0ZZ	Occlusion of Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0FLC3CZ	Occlusion of Ampulla of Vater with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FLC3DZ	Occlusion of Ampulla of Vater with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FLC3ZZ	Occlusion of Ampulla of Vater, Percutaneous Approach	PX	ICD-10-PCS
0FLC4CZ	Occlusion of Ampulla of Vater with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FLC4DZ	Occlusion of Ampulla of Vater with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FLC4ZZ	Occlusion of Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FLC7DZ	Occlusion of Ampulla of Vater with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FLC7ZZ	Occlusion of Ampulla of Vater, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FLC8DZ	Occlusion of Ampulla of Vater with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FLC8ZZ	Occlusion of Ampulla of Vater, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FLD0CZ	Occlusion of Pancreatic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FLD0DZ	Occlusion of Pancreatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FLD0ZZ	Occlusion of Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FLD3CZ	Occlusion of Pancreatic Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FLD3DZ	Occlusion of Pancreatic Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FLD3ZZ	Occlusion of Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FLD4CZ	Occlusion of Pancreatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FLD4DZ	Occlusion of Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FLD4ZZ	Occlusion of Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FLD7DZ	Occlusion of Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FLD7ZZ	Occlusion of Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FLD8DZ	Occlusion of Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FLD8ZZ	Occlusion of Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FLF0CZ	Occlusion of Accessory Pancreatic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FLF0DZ	Occlusion of Accessory Pancreatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FLF0ZZ	Occlusion of Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FLF3CZ	Occlusion of Accessory Pancreatic Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FLF3DZ	Occlusion of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FLF3ZZ	Occlusion of Accessory Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FLF4CZ	Occlusion of Accessory Pancreatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FLF4DZ	Occlusion of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FLF4ZZ	Occlusion of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FLF7DZ	Occlusion of Accessory Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FLF7ZZ	Occlusion of Accessory Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FLF8DZ	Occlusion of Accessory Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FLF8ZZ	Occlusion of Accessory Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FM00ZZ	Reattachment of Liver, Open Approach	PX	ICD-10-PCS
0FM04ZZ	Reattachment of Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FM10ZZ	Reattachment of Right Lobe Liver, Open Approach	PX	ICD-10-PCS
0FM14ZZ	Reattachment of Right Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FM20ZZ	Reattachment of Left Lobe Liver, Open Approach	PX	ICD-10-PCS
0FM24ZZ	Reattachment of Left Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FM40ZZ	Reattachment of Gallbladder, Open Approach	PX	ICD-10-PCS
0FM44ZZ	Reattachment of Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FM50ZZ	Reattachment of Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FM54ZZ	Reattachment of Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FM60ZZ	Reattachment of Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FM64ZZ	Reattachment of Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FM70ZZ	Reattachment of Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FM74ZZ	Reattachment of Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FM80ZZ	Reattachment of Cystic Duct, Open Approach	PX	ICD-10-PCS
0FM84ZZ	Reattachment of Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FM90ZZ	Reattachment of Common Bile Duct, Open Approach	PX	ICD-10-PCS
0FM94ZZ	Reattachment of Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FMC0ZZ	Reattachment of Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0FMC4ZZ	Reattachment of Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FMD0ZZ	Reattachment of Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FMD4ZZ	Reattachment of Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FMF0ZZ	Reattachment of Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FMF4ZZ	Reattachment of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FMG0ZZ	Reattachment of Pancreas, Open Approach	PX	ICD-10-PCS
0FMG4ZZ	Reattachment of Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FN00ZZ	Release Liver, Open Approach	PX	ICD-10-PCS
0FN03ZZ	Release Liver, Percutaneous Approach	PX	ICD-10-PCS
0FN04ZZ	Release Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FN10ZZ	Release Right Lobe Liver, Open Approach	PX	ICD-10-PCS
0FN13ZZ	Release Right Lobe Liver, Percutaneous Approach	PX	ICD-10-PCS
0FN14ZZ	Release Right Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FN20ZZ	Release Left Lobe Liver, Open Approach	PX	ICD-10-PCS
0FN23ZZ	Release Left Lobe Liver, Percutaneous Approach	PX	ICD-10-PCS
0FN24ZZ	Release Left Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FN40ZZ	Release Gallbladder, Open Approach	PX	ICD-10-PCS
0FN43ZZ	Release Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FN44ZZ	Release Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FN48ZZ	Release Gallbladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FN50ZZ	Release Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FN53ZZ	Release Right Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FN54ZZ	Release Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FN57ZZ	Release Right Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FN58ZZ	Release Right Hepatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FN60ZZ	Release Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FN63ZZ	Release Left Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FN64ZZ	Release Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FN67ZZ	Release Left Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FN68ZZ	Release Left Hepatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FN70ZZ	Release Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FN73ZZ	Release Common Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FN74ZZ	Release Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FN77ZZ	Release Common Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FN78ZZ	Release Common Hepatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FN80ZZ	Release Cystic Duct, Open Approach	PX	ICD-10-PCS
0FN83ZZ	Release Cystic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FN84ZZ	Release Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FN87ZZ	Release Cystic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FN88ZZ	Release Cystic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FN90ZZ	Release Common Bile Duct, Open Approach	PX	ICD-10-PCS
0FN93ZZ	Release Common Bile Duct, Percutaneous Approach	PX	ICD-10-PCS
0FN94ZZ	Release Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FN97ZZ	Release Common Bile Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FN98ZZ	Release Common Bile Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FNC0ZZ	Release Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0FNC3ZZ	Release Ampulla of Vater, Percutaneous Approach	PX	ICD-10-PCS
0FNC4ZZ	Release Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FNC7ZZ	Release Ampulla of Vater, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FNC8ZZ	Release Ampulla of Vater, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FND0ZZ	Release Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FND3ZZ	Release Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FND4ZZ	Release Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FND7ZZ	Release Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FND8ZZ	Release Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FNF0ZZ	Release Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FNF3ZZ	Release Accessory Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FNF4ZZ	Release Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FNF7ZZ	Release Accessory Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FNF8ZZ	Release Accessory Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FNG0ZZ	Release Pancreas, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FNG3ZZ	Release Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FNG4ZZ	Release Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FNG8ZZ	Release Pancreas, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FP000Z	Removal of Drainage Device from Liver, Open Approach	PX	ICD-10-PCS
0FP002Z	Removal of Monitoring Device from Liver, Open Approach	PX	ICD-10-PCS
0FP003Z	Removal of Infusion Device from Liver, Open Approach	PX	ICD-10-PCS
0FP00YZ	Removal of Other Device from Liver, Open Approach	PX	ICD-10-PCS
0FP030Z	Removal of Drainage Device from Liver, Percutaneous Approach	PX	ICD-10-PCS
0FP032Z	Removal of Monitoring Device from Liver, Percutaneous Approach	PX	ICD-10-PCS
0FP033Z	Removal of Infusion Device from Liver, Percutaneous Approach	PX	ICD-10-PCS
0FP03YZ	Removal of Other Device from Liver, Percutaneous Approach	PX	ICD-10-PCS
0FP040Z	Removal of Drainage Device from Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FP042Z	Removal of Monitoring Device from Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FP043Z	Removal of Infusion Device from Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FP04YZ	Removal of Other Device from Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FP400Z	Removal of Drainage Device from Gallbladder, Open Approach	PX	ICD-10-PCS
0FP402Z	Removal of Monitoring Device from Gallbladder, Open Approach	PX	ICD-10-PCS
0FP403Z	Removal of Infusion Device from Gallbladder, Open Approach	PX	ICD-10-PCS
0FP40DZ	Removal of Intraluminal Device from Gallbladder, Open Approach	PX	ICD-10-PCS
0FP40YZ	Removal of Other Device from Gallbladder, Open Approach	PX	ICD-10-PCS
0FP430Z	Removal of Drainage Device from Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FP432Z	Removal of Monitoring Device from Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FP433Z	Removal of Infusion Device from Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FP43DZ	Removal of Intraluminal Device from Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FP43YZ	Removal of Other Device from Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FP440Z	Removal of Drainage Device from Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FP442Z	Removal of Monitoring Device from Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FP443Z	Removal of Infusion Device from Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FP44DZ	Removal of Intraluminal Device from Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FP44YZ	Removal of Other Device from Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB00Z	Removal of Drainage Device from Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FPB01Z	Removal of Radioactive Element from Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FPB02Z	Removal of Monitoring Device from Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FPB03Z	Removal of Infusion Device from Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FPB07Z	Removal of Autologous Tissue Substitute from Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FPB0CZ	Removal of Extraluminal Device from Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FPB0DZ	Removal of Intraluminal Device from Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FPB0JZ	Removal of Synthetic Substitute from Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FPB0KZ	Removal of Nonautologous Tissue Substitute from Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FPB0YZ	Removal of Other Device from Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FPB30Z	Removal of Drainage Device from Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPB32Z	Removal of Monitoring Device from Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPB33Z	Removal of Infusion Device from Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPB37Z	Removal of Autologous Tissue Substitute from Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPB3CZ	Removal of Extraluminal Device from Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPB3DZ	Removal of Intraluminal Device from Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPB3JZ	Removal of Synthetic Substitute from Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPB3KZ	Removal of Nonautologous Tissue Substitute from Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPB3YZ	Removal of Other Device from Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPB40Z	Removal of Drainage Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB41Z	Removal of Radioactive Element from Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB42Z	Removal of Monitoring Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB43Z	Removal of Infusion Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB47Z	Removal of Autologous Tissue Substitute from Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB4CZ	Removal of Extraluminal Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB4DZ	Removal of Intraluminal Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB4JZ	Removal of Synthetic Substitute from Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB4KZ	Removal of Nonautologous Tissue Substitute from Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB4YZ	Removal of Other Device from Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPB77Z	Removal of Autologous Tissue Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FPB7CZ	Removal of Extraluminal Device from Hepatobiliary Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FPB7JZ	Removal of Synthetic Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FPB7KZ	Removal of Nonautologous Tissue Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FPB87Z	Removal of Autologous Tissue Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FPB8CZ	Removal of Extraluminal Device from Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FPB8JZ	Removal of Synthetic Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FPB8KZ	Removal of Nonautologous Tissue Substitute from Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FPD00Z	Removal of Drainage Device from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FPD01Z	Removal of Radioactive Element from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FPD02Z	Removal of Monitoring Device from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FPD03Z	Removal of Infusion Device from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FPD07Z	Removal of Autologous Tissue Substitute from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FPD0CZ	Removal of Extraluminal Device from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FPD0DZ	Removal of Intraluminal Device from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FPD0JZ	Removal of Synthetic Substitute from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FPD0KZ	Removal of Nonautologous Tissue Substitute from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FPD0YZ	Removal of Other Device from Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FPD30Z	Removal of Drainage Device from Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPD32Z	Removal of Monitoring Device from Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPD33Z	Removal of Infusion Device from Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPD37Z	Removal of Autologous Tissue Substitute from Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPD3CZ	Removal of Extraluminal Device from Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPD3DZ	Removal of Intraluminal Device from Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPD3JZ	Removal of Synthetic Substitute from Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPD3KZ	Removal of Nonautologous Tissue Substitute from Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPD3YZ	Removal of Other Device from Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FPD40Z	Removal of Drainage Device from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPD41Z	Removal of Radioactive Element from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPD42Z	Removal of Monitoring Device from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPD43Z	Removal of Infusion Device from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPD47Z	Removal of Autologous Tissue Substitute from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPD4CZ	Removal of Extraluminal Device from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPD4DZ	Removal of Intraluminal Device from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPD4JZ	Removal of Synthetic Substitute from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FPD4KZ	Removal of Nonautologous Tissue Substitute from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPD4YZ	Removal of Other Device from Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPD77Z	Removal of Autologous Tissue Substitute from Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FPD7CZ	Removal of Extraluminal Device from Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FPD7JZ	Removal of Synthetic Substitute from Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FPD7KZ	Removal of Nonautologous Tissue Substitute from Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FPD87Z	Removal of Autologous Tissue Substitute from Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FPD8CZ	Removal of Extraluminal Device from Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FPD8JZ	Removal of Synthetic Substitute from Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FPD8KZ	Removal of Nonautologous Tissue Substitute from Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FPG00Z	Removal of Drainage Device from Pancreas, Open Approach	PX	ICD-10-PCS
0FPG02Z	Removal of Monitoring Device from Pancreas, Open Approach	PX	ICD-10-PCS
0FPG03Z	Removal of Infusion Device from Pancreas, Open Approach	PX	ICD-10-PCS
0FPG0DZ	Removal of Intraluminal Device from Pancreas, Open Approach	PX	ICD-10-PCS
0FPG0YZ	Removal of Other Device from Pancreas, Open Approach	PX	ICD-10-PCS
0FPG32Z	Removal of Monitoring Device from Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FPG33Z	Removal of Infusion Device from Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FPG3DZ	Removal of Intraluminal Device from Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FPG3YZ	Removal of Other Device from Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FPG40Z	Removal of Drainage Device from Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPG42Z	Removal of Monitoring Device from Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPG43Z	Removal of Infusion Device from Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPG4DZ	Removal of Intraluminal Device from Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPG4YZ	Removal of Other Device from Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FPGXDZ	Removal of Intraluminal Device from Pancreas, External Approach	PX	ICD-10-PCS
0FQ00ZZ	Repair Liver, Open Approach	PX	ICD-10-PCS
0FQ03ZZ	Repair Liver, Percutaneous Approach	PX	ICD-10-PCS
0FQ04ZZ	Repair Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQ10ZZ	Repair Right Lobe Liver, Open Approach	PX	ICD-10-PCS
0FQ13ZZ	Repair Right Lobe Liver, Percutaneous Approach	PX	ICD-10-PCS
0FQ14ZZ	Repair Right Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQ20ZZ	Repair Left Lobe Liver, Open Approach	PX	ICD-10-PCS
0FQ23ZZ	Repair Left Lobe Liver, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FQ24ZZ	Repair Left Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQ40ZZ	Repair Gallbladder, Open Approach	PX	ICD-10-PCS
0FQ43ZZ	Repair Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FQ44ZZ	Repair Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQ48ZZ	Repair Gallbladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FQ50ZZ	Repair Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FQ53ZZ	Repair Right Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FQ54ZZ	Repair Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQ57ZZ	Repair Right Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FQ58ZZ	Repair Right Hepatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FQ60ZZ	Repair Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FQ63ZZ	Repair Left Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FQ64ZZ	Repair Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQ67ZZ	Repair Left Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FQ68ZZ	Repair Left Hepatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FQ70ZZ	Repair Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FQ73ZZ	Repair Common Hepatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FQ74ZZ	Repair Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQ77ZZ	Repair Common Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FQ78ZZ	Repair Common Hepatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FQ80ZZ	Repair Cystic Duct, Open Approach	PX	ICD-10-PCS
0FQ83ZZ	Repair Cystic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FQ84ZZ	Repair Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQ87ZZ	Repair Cystic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FQ88ZZ	Repair Cystic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FQ90ZZ	Repair Common Bile Duct, Open Approach	PX	ICD-10-PCS
0FQ93ZZ	Repair Common Bile Duct, Percutaneous Approach	PX	ICD-10-PCS
0FQ94ZZ	Repair Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQ97ZZ	Repair Common Bile Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FQ98ZZ	Repair Common Bile Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FQC0ZZ	Repair Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0FQC3ZZ	Repair Ampulla of Vater, Percutaneous Approach	PX	ICD-10-PCS
0FQC4ZZ	Repair Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQC7ZZ	Repair Ampulla of Vater, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FQC8ZZ	Repair Ampulla of Vater, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FQD0ZZ	Repair Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FQD3ZZ	Repair Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FQD4ZZ	Repair Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQD7ZZ	Repair Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FQD8ZZ	Repair Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FQF0ZZ	Repair Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FQF3ZZ	Repair Accessory Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FQF4ZZ	Repair Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQF7ZZ	Repair Accessory Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FQF8ZZ	Repair Accessory Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FQG0ZZ	Repair Pancreas, Open Approach	PX	ICD-10-PCS
0FQG3ZZ	Repair Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FQG4ZZ	Repair Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FQG8ZZ	Repair Pancreas, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR507Z	Replacement of Right Hepatic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FR50JZ	Replacement of Right Hepatic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FR50KZ	Replacement of Right Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FR547Z	Replacement of Right Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR54JZ	Replacement of Right Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR54KZ	Replacement of Right Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR587Z	Replacement of Right Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR58JZ	Replacement of Right Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR58KZ	Replacement of Right Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR607Z	Replacement of Left Hepatic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FR60JZ	Replacement of Left Hepatic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FR60KZ	Replacement of Left Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FR647Z	Replacement of Left Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR64JZ	Replacement of Left Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR64KZ	Replacement of Left Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR687Z	Replacement of Left Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR68JZ	Replacement of Left Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR68KZ	Replacement of Left Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR707Z	Replacement of Common Hepatic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FR70JZ	Replacement of Common Hepatic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FR70KZ	Replacement of Common Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FR747Z	Replacement of Common Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR74JZ	Replacement of Common Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR74KZ	Replacement of Common Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR787Z	Replacement of Common Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR78JZ	Replacement of Common Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR78KZ	Replacement of Common Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR807Z	Replacement of Cystic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FR80JZ	Replacement of Cystic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FR80KZ	Replacement of Cystic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FR847Z	Replacement of Cystic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR84JZ	Replacement of Cystic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR84KZ	Replacement of Cystic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR887Z	Replacement of Cystic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR88JZ	Replacement of Cystic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR88KZ	Replacement of Cystic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR907Z	Replacement of Common Bile Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FR90JZ	Replacement of Common Bile Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FR90KZ	Replacement of Common Bile Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FR947Z	Replacement of Common Bile Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR94JZ	Replacement of Common Bile Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR94KZ	Replacement of Common Bile Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FR987Z	Replacement of Common Bile Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR98JZ	Replacement of Common Bile Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FR98KZ	Replacement of Common Bile Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FRC07Z	Replacement of Ampulla of Vater with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FRC0JZ	Replacement of Ampulla of Vater with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FRC0KZ	Replacement of Ampulla of Vater with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FRC47Z	Replacement of Ampulla of Vater with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FRC4JZ	Replacement of Ampulla of Vater with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FRC4KZ	Replacement of Ampulla of Vater with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FRC87Z	Replacement of Ampulla of Vater with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FRC8JZ	Replacement of Ampulla of Vater with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FRC8KZ	Replacement of Ampulla of Vater with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FRD07Z	Replacement of Pancreatic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FRD0JZ	Replacement of Pancreatic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FRD0KZ	Replacement of Pancreatic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FRD47Z	Replacement of Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FRD4JZ	Replacement of Pancreatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FRD4KZ	Replacement of Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FRD87Z	Replacement of Pancreatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FRD8JZ	Replacement of Pancreatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FRD8KZ	Replacement of Pancreatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FRF07Z	Replacement of Accessory Pancreatic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FRF0JZ	Replacement of Accessory Pancreatic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FRF0KZ	Replacement of Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FRF47Z	Replacement of Accessory Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FRF4JZ	Replacement of Accessory Pancreatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FRF4KZ	Replacement of Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FRF87Z	Replacement of Accessory Pancreatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FRF8JZ	Replacement of Accessory Pancreatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FRF8KZ	Replacement of Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FS00ZZ	Reposition Liver, Open Approach	PX	ICD-10-PCS
0FS04ZZ	Reposition Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FS40ZZ	Reposition Gallbladder, Open Approach	PX	ICD-10-PCS
0FS44ZZ	Reposition Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FS50ZZ	Reposition Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FS54ZZ	Reposition Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FS60ZZ	Reposition Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FS64ZZ	Reposition Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FS70ZZ	Reposition Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FS74ZZ	Reposition Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FS80ZZ	Reposition Cystic Duct, Open Approach	PX	ICD-10-PCS
0FS84ZZ	Reposition Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FS90ZZ	Reposition Common Bile Duct, Open Approach	PX	ICD-10-PCS
0FS94ZZ	Reposition Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FSC0ZZ	Reposition Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0FSC4ZZ	Reposition Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FSD0ZZ	Reposition Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FSD4ZZ	Reposition Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FSF0ZZ	Reposition Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FSF4ZZ	Reposition Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FSG0ZZ	Reposition Pancreas, Open Approach	PX	ICD-10-PCS
0FSG4ZZ	Reposition Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FT00ZZ	Resection of Liver, Open Approach	PX	ICD-10-PCS
0FT04ZG	Resection of liver, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0FT04ZZ	Resection of Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FT10ZZ	Resection of Right Lobe Liver, Open Approach	PX	ICD-10-PCS
0FT14ZG	Resection of right lobe liver, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0FT14ZZ	Resection of Right Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FT20ZZ	Resection of Left Lobe Liver, Open Approach	PX	ICD-10-PCS
0FT24ZG	Resection of left lobe liver, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0FT24ZZ	Resection of Left Lobe Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FT40ZZ	Resection of Gallbladder, Open Approach	PX	ICD-10-PCS
0FT44ZG	Resection of gallbladder, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0FT44ZZ	Resection of Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FT50ZZ	Resection of Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FT54ZZ	Resection of Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FT57ZZ	Resection of Right Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FT58ZZ	Resection of Right Hepatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FT60ZZ	Resection of Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FT64ZZ	Resection of Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FT67ZZ	Resection of Left Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FT68ZZ	Resection of Left Hepatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FT70ZZ	Resection of Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FT74ZZ	Resection of Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FT77ZZ	Resection of Common Hepatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FT78ZZ	Resection of Common Hepatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FT80ZZ	Resection of Cystic Duct, Open Approach	PX	ICD-10-PCS
0FT84ZZ	Resection of Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FT87ZZ	Resection of Cystic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FT88ZZ	Resection of Cystic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FT90ZZ	Resection of Common Bile Duct, Open Approach	PX	ICD-10-PCS
0FT94ZZ	Resection of Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FT97ZZ	Resection of Common Bile Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FT98ZZ	Resection of Common Bile Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FTC0ZZ	Resection of Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0FTC4ZZ	Resection of Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FTC7ZZ	Resection of Ampulla of Vater, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FTC8ZZ	Resection of Ampulla of Vater, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FTD0ZZ	Resection of Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FTD4ZZ	Resection of Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FTD7ZZ	Resection of Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FTF0ZZ	Resection of Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FTF4ZZ	Resection of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FTF7ZZ	Resection of Accessory Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FTG0ZZ	Resection of Pancreas, Open Approach	PX	ICD-10-PCS
0FTG4ZG	Resection of pancreas, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0FTG4ZZ	Resection of Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU507Z	Supplement Right Hepatic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FU50JZ	Supplement Right Hepatic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FU50KZ	Supplement Right Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FU537Z	Supplement Right Hepatic Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU53JZ	Supplement Right Hepatic Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU53KZ	Supplement Right Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU547Z	Supplement Right Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU54JZ	Supplement Right Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FU54KZ	Supplement Right Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU587Z	Supplement Right Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU58JZ	Supplement Right Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU58KZ	Supplement Right Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU607Z	Supplement Left Hepatic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FU60JZ	Supplement Left Hepatic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FU60KZ	Supplement Left Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FU637Z	Supplement Left Hepatic Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU63JZ	Supplement Left Hepatic Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU63KZ	Supplement Left Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU647Z	Supplement Left Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU64JZ	Supplement Left Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU64KZ	Supplement Left Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU687Z	Supplement Left Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU68JZ	Supplement Left Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU68KZ	Supplement Left Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU707Z	Supplement Common Hepatic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FU70JZ	Supplement Common Hepatic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FU70KZ	Supplement Common Hepatic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FU737Z	Supplement Common Hepatic Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU73JZ	Supplement Common Hepatic Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU73KZ	Supplement Common Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU747Z	Supplement Common Hepatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FU74JZ	Supplement Common Hepatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU74KZ	Supplement Common Hepatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU787Z	Supplement Common Hepatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU78JZ	Supplement Common Hepatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU78KZ	Supplement Common Hepatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU807Z	Supplement Cystic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FU80JZ	Supplement Cystic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FU80KZ	Supplement Cystic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FU837Z	Supplement Cystic Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU83JZ	Supplement Cystic Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU83KZ	Supplement Cystic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU847Z	Supplement Cystic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU84JZ	Supplement Cystic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU84KZ	Supplement Cystic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU887Z	Supplement Cystic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU88JZ	Supplement Cystic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU88KZ	Supplement Cystic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU907Z	Supplement Common Bile Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FU90JZ	Supplement Common Bile Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FU90KZ	Supplement Common Bile Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FU937Z	Supplement Common Bile Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU93JZ	Supplement Common Bile Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU93KZ	Supplement Common Bile Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FU947Z	Supplement Common Bile Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU94JZ	Supplement Common Bile Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FU94KZ	Supplement Common Bile Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FU987Z	Supplement Common Bile Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU98JZ	Supplement Common Bile Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FU98KZ	Supplement Common Bile Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FUC07Z	Supplement Ampulla of Vater with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FUC0JZ	Supplement Ampulla of Vater with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FUC0KZ	Supplement Ampulla of Vater with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FUC37Z	Supplement Ampulla of Vater with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FUC3JZ	Supplement Ampulla of Vater with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FUC3KZ	Supplement Ampulla of Vater with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FUC47Z	Supplement Ampulla of Vater with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FUC4JZ	Supplement Ampulla of Vater with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FUC4KZ	Supplement Ampulla of Vater with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FUC87Z	Supplement Ampulla of Vater with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FUC8JZ	Supplement Ampulla of Vater with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FUC8KZ	Supplement Ampulla of Vater with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FUD07Z	Supplement Pancreatic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FUD0JZ	Supplement Pancreatic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FUD0KZ	Supplement Pancreatic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FUD37Z	Supplement Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FUD3JZ	Supplement Pancreatic Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FUD3KZ	Supplement Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FUD47Z	Supplement Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FUD4JZ	Supplement Pancreatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FUD4KZ	Supplement Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FUD87Z	Supplement Pancreatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FUD8JZ	Supplement Pancreatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FUD8KZ	Supplement Pancreatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FUF07Z	Supplement Accessory Pancreatic Duct with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FUF0JZ	Supplement Accessory Pancreatic Duct with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0FUF0KZ	Supplement Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0FUF37Z	Supplement Accessory Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FUF3JZ	Supplement Accessory Pancreatic Duct with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FUF3KZ	Supplement Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0FUF47Z	Supplement Accessory Pancreatic Duct with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FUF4JZ	Supplement Accessory Pancreatic Duct with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FUF4KZ	Supplement Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FUF87Z	Supplement Accessory Pancreatic Duct with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FUF8JZ	Supplement Accessory Pancreatic Duct with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FUF8KZ	Supplement Accessory Pancreatic Duct with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FV50CZ	Restriction of Right Hepatic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FV50DZ	Restriction of Right Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FV50ZZ	Restriction of Right Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FV54CZ	Restriction of Right Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV54DZ	Restriction of Right Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV54ZZ	Restriction of Right Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV60CZ	Restriction of Left Hepatic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FV60DZ	Restriction of Left Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FV60ZZ	Restriction of Left Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FV64CZ	Restriction of Left Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FV64DZ	Restriction of Left Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV64ZZ	Restriction of Left Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV70CZ	Restriction of Common Hepatic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FV70DZ	Restriction of Common Hepatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FV70ZZ	Restriction of Common Hepatic Duct, Open Approach	PX	ICD-10-PCS
0FV74CZ	Restriction of Common Hepatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV74DZ	Restriction of Common Hepatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV74ZZ	Restriction of Common Hepatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV80CZ	Restriction of Cystic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FV80DZ	Restriction of Cystic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FV80ZZ	Restriction of Cystic Duct, Open Approach	PX	ICD-10-PCS
0FV84CZ	Restriction of Cystic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV84DZ	Restriction of Cystic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV84ZZ	Restriction of Cystic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV90CZ	Restriction of Common Bile Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FV90DZ	Restriction of Common Bile Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FV90ZZ	Restriction of Common Bile Duct, Open Approach	PX	ICD-10-PCS
0FV94CZ	Restriction of Common Bile Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV94DZ	Restriction of Common Bile Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FV94ZZ	Restriction of Common Bile Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FVC0CZ	Restriction of Ampulla of Vater with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FVC0DZ	Restriction of Ampulla of Vater with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FVC0ZZ	Restriction of Ampulla of Vater, Open Approach	PX	ICD-10-PCS
0FVC3CZ	Restriction of Ampulla of Vater with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FVC3DZ	Restriction of Ampulla of Vater with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FVC3ZZ	Restriction of Ampulla of Vater, Percutaneous Approach	PX	ICD-10-PCS
0FVC4CZ	Restriction of Ampulla of Vater with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FVC4DZ	Restriction of Ampulla of Vater with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FVC4ZZ	Restriction of Ampulla of Vater, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FVC7DZ	Restriction of Ampulla of Vater with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FVC7ZZ	Restriction of Ampulla of Vater, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FVC8DZ	Restriction of Ampulla of Vater with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FVC8ZZ	Restriction of Ampulla of Vater, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FVD0CZ	Restriction of Pancreatic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FVD0DZ	Restriction of Pancreatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FVD0ZZ	Restriction of Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FVD3CZ	Restriction of Pancreatic Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FVD3DZ	Restriction of Pancreatic Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FVD3ZZ	Restriction of Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FVD4CZ	Restriction of Pancreatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FVD4DZ	Restriction of Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FVD4ZZ	Restriction of Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FVD7DZ	Restriction of Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FVD7ZZ	Restriction of Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FVD8DZ	Restriction of Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FVD8ZZ	Restriction of Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FVF0CZ	Restriction of Accessory Pancreatic Duct with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0FVF0DZ	Restriction of Accessory Pancreatic Duct with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0FVF0ZZ	Restriction of Accessory Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FVF3CZ	Restriction of Accessory Pancreatic Duct with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FVF3DZ	Restriction of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0FVF3ZZ	Restriction of Accessory Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FVF4CZ	Restriction of Accessory Pancreatic Duct with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FVF4DZ	Restriction of Accessory Pancreatic Duct with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FVF4ZZ	Restriction of Accessory Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FVF7DZ	Restriction of Accessory Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FVF7ZZ	Restriction of Accessory Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FVF8DZ	Restriction of Accessory Pancreatic Duct with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FVF8ZZ	Restriction of Accessory Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FW000Z	Revision of Drainage Device in Liver, Open Approach	PX	ICD-10-PCS
0FW002Z	Revision of Monitoring Device in Liver, Open Approach	PX	ICD-10-PCS
0FW003Z	Revision of Infusion Device in Liver, Open Approach	PX	ICD-10-PCS
0FW00YZ	Revision of Other Device in Liver, Open Approach	PX	ICD-10-PCS
0FW030Z	Revision of Drainage Device in Liver, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FW032Z	Revision of Monitoring Device in Liver, Percutaneous Approach	PX	ICD-10-PCS
0FW033Z	Revision of Infusion Device in Liver, Percutaneous Approach	PX	ICD-10-PCS
0FW03YZ	Revision of Other Device in Liver, Percutaneous Approach	PX	ICD-10-PCS
0FW040Z	Revision of Drainage Device in Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FW042Z	Revision of Monitoring Device in Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FW043Z	Revision of Infusion Device in Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FW04YZ	Revision of Other Device in Liver, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FW400Z	Revision of Drainage Device in Gallbladder, Open Approach	PX	ICD-10-PCS
0FW402Z	Revision of Monitoring Device in Gallbladder, Open Approach	PX	ICD-10-PCS
0FW403Z	Revision of Infusion Device in Gallbladder, Open Approach	PX	ICD-10-PCS
0FW40DZ	Revision of Intraluminal Device in Gallbladder, Open Approach	PX	ICD-10-PCS
0FW40YZ	Revision of Other Device in Gallbladder, Open Approach	PX	ICD-10-PCS
0FW430Z	Revision of Drainage Device in Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FW432Z	Revision of Monitoring Device in Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FW433Z	Revision of Infusion Device in Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FW43DZ	Revision of Intraluminal Device in Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FW43YZ	Revision of Other Device in Gallbladder, Percutaneous Approach	PX	ICD-10-PCS
0FW440Z	Revision of Drainage Device in Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FW442Z	Revision of Monitoring Device in Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FW443Z	Revision of Infusion Device in Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FW44DZ	Revision of Intraluminal Device in Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FW44YZ	Revision of Other Device in Gallbladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWB00Z	Revision of Drainage Device in Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FWB02Z	Revision of Monitoring Device in Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FWB03Z	Revision of Infusion Device in Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FWB07Z	Revision of Autologous Tissue Substitute in Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FWB0CZ	Revision of Extraluminal Device in Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FWB0DZ	Revision of Intraluminal Device in Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FWB0JZ	Revision of Synthetic Substitute in Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FWB0KZ	Revision of Nonautologous Tissue Substitute in Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FWB0YZ	Revision of Other Device in Hepatobiliary Duct, Open Approach	PX	ICD-10-PCS
0FWB30Z	Revision of Drainage Device in Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWB32Z	Revision of Monitoring Device in Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWB33Z	Revision of Infusion Device in Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWB37Z	Revision of Autologous Tissue Substitute in Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWB3CZ	Revision of Extraluminal Device in Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWB3DZ	Revision of Intraluminal Device in Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWB3JZ	Revision of Synthetic Substitute in Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWB3KZ	Revision of Nonautologous Tissue Substitute in Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWB3YZ	Revision of Other Device in Hepatobiliary Duct, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FWB40Z	Revision of Drainage Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWB42Z	Revision of Monitoring Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWB43Z	Revision of Infusion Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWB47Z	Revision of Autologous Tissue Substitute in Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWB4CZ	Revision of Extraluminal Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWB4DZ	Revision of Intraluminal Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWB4JZ	Revision of Synthetic Substitute in Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWB4KZ	Revision of Nonautologous Tissue Substitute in Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWB4YZ	Revision of Other Device in Hepatobiliary Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWB77Z	Revision of Autologous Tissue Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FWB7CZ	Revision of Extraluminal Device in Hepatobiliary Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FWB7JZ	Revision of Synthetic Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FWB7KZ	Revision of Nonautologous Tissue Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FWB87Z	Revision of Autologous Tissue Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FWB8CZ	Revision of Extraluminal Device in Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FWB8JZ	Revision of Synthetic Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FWB8KZ	Revision of Nonautologous Tissue Substitute in Hepatobiliary Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FWD00Z	Revision of Drainage Device in Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FWD02Z	Revision of Monitoring Device in Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FWD03Z	Revision of Infusion Device in Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FWD07Z	Revision of Autologous Tissue Substitute in Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FWD0CZ	Revision of Extraluminal Device in Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FWD0DZ	Revision of Intraluminal Device in Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FWD0JZ	Revision of Synthetic Substitute in Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FWD0KZ	Revision of Nonautologous Tissue Substitute in Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FWD0YZ	Revision of Other Device in Pancreatic Duct, Open Approach	PX	ICD-10-PCS
0FWD30Z	Revision of Drainage Device in Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWD32Z	Revision of Monitoring Device in Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FWD33Z	Revision of Infusion Device in Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWD37Z	Revision of Autologous Tissue Substitute in Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWD3CZ	Revision of Extraluminal Device in Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWD3DZ	Revision of Intraluminal Device in Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWD3JZ	Revision of Synthetic Substitute in Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWD3KZ	Revision of Nonautologous Tissue Substitute in Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWD3YZ	Revision of Other Device in Pancreatic Duct, Percutaneous Approach	PX	ICD-10-PCS
0FWD40Z	Revision of Drainage Device in Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWD42Z	Revision of Monitoring Device in Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWD43Z	Revision of Infusion Device in Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWD47Z	Revision of Autologous Tissue Substitute in Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWD4CZ	Revision of Extraluminal Device in Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWD4DZ	Revision of Intraluminal Device in Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWD4JZ	Revision of Synthetic Substitute in Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWD4KZ	Revision of Nonautologous Tissue Substitute in Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWD4YZ	Revision of Other Device in Pancreatic Duct, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWD77Z	Revision of Autologous Tissue Substitute in Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FWD7CZ	Revision of Extraluminal Device in Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FWD7JZ	Revision of Synthetic Substitute in Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FWD7KZ	Revision of Nonautologous Tissue Substitute in Pancreatic Duct, Via Natural or Artificial Opening	PX	ICD-10-PCS
0FWD87Z	Revision of Autologous Tissue Substitute in Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FWD8CZ	Revision of Extraluminal Device in Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FWD8JZ	Revision of Synthetic Substitute in Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FWD8KZ	Revision of Nonautologous Tissue Substitute in Pancreatic Duct, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0FWG00Z	Revision of Drainage Device in Pancreas, Open Approach	PX	ICD-10-PCS
0FWG02Z	Revision of Monitoring Device in Pancreas, Open Approach	PX	ICD-10-PCS
0FWG03Z	Revision of Infusion Device in Pancreas, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0FWG0DZ	Revision of Intraluminal Device in Pancreas, Open Approach	PX	ICD-10-PCS
0FWG0YZ	Revision of Other Device in Pancreas, Open Approach	PX	ICD-10-PCS
0FWG30Z	Revision of Drainage Device in Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FWG32Z	Revision of Monitoring Device in Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FWG33Z	Revision of Infusion Device in Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FWG3DZ	Revision of Intraluminal Device in Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FWG3YZ	Revision of Other Device in Pancreas, Percutaneous Approach	PX	ICD-10-PCS
0FWG40Z	Revision of Drainage Device in Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWG42Z	Revision of Monitoring Device in Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWG43Z	Revision of Infusion Device in Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWG4DZ	Revision of Intraluminal Device in Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FWG4YZ	Revision of Other Device in Pancreas, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0FY00Z0	Transplantation of Liver, Allogeneic, Open Approach	PX	ICD-10-PCS
0FY00Z1	Transplantation of Liver, Syngeneic, Open Approach	PX	ICD-10-PCS
0FY00Z2	Transplantation of Liver, Zooplastic, Open Approach	PX	ICD-10-PCS
0FYG0Z0	Transplantation of Pancreas, Allogeneic, Open Approach	PX	ICD-10-PCS
0FYG0Z1	Transplantation of Pancreas, Syngeneic, Open Approach	PX	ICD-10-PCS
0FYG0Z2	Transplantation of Pancreas, Zooplastic, Open Approach	PX	ICD-10-PCS
0G500Z3	Destruction of Pituitary Gland using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G500ZZ	Destruction of Pituitary Gland, Open Approach	PX	ICD-10-PCS
0G503Z3	Destruction of Pituitary Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G503ZZ	Destruction of Pituitary Gland, Percutaneous Approach	PX	ICD-10-PCS
0G504Z3	Destruction of Pituitary Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G504ZZ	Destruction of Pituitary Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G510Z3	Destruction of Pineal Body using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G510ZZ	Destruction of Pineal Body, Open Approach	PX	ICD-10-PCS
0G513Z3	Destruction of Pineal Body using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G513ZZ	Destruction of Pineal Body, Percutaneous Approach	PX	ICD-10-PCS
0G514Z3	Destruction of Pineal Body using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G514ZZ	Destruction of Pineal Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G520Z3	Destruction of Left Adrenal Gland using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G520ZZ	Destruction of Left Adrenal Gland, Open Approach	PX	ICD-10-PCS
0G523Z3	Destruction of Left Adrenal Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G523ZZ	Destruction of Left Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0G524Z3	Destruction of Left Adrenal Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G524ZZ	Destruction of Left Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0G530Z3	Destruction of Right Adrenal Gland using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G530ZZ	Destruction of Right Adrenal Gland, Open Approach	PX	ICD-10-PCS
0G533Z3	Destruction of Right Adrenal Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G533ZZ	Destruction of Right Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0G534Z3	Destruction of Right Adrenal Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G534ZZ	Destruction of Right Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G540Z3	Destruction of Bilateral Adrenal Glands using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G540ZZ	Destruction of Bilateral Adrenal Glands, Open Approach	PX	ICD-10-PCS
0G543Z3	Destruction of Bilateral Adrenal Glands using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G543ZZ	Destruction of Bilateral Adrenal Glands, Percutaneous Approach	PX	ICD-10-PCS
0G544Z3	Destruction of Bilateral Adrenal Glands using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G544ZZ	Destruction of Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G560Z3	Destruction of Left Carotid Body using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G560ZZ	Destruction of Left Carotid Body, Open Approach	PX	ICD-10-PCS
0G563Z3	Destruction of Left Carotid Body using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G563ZZ	Destruction of Left Carotid Body, Percutaneous Approach	PX	ICD-10-PCS
0G564Z3	Destruction of Left Carotid Body using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G564ZZ	Destruction of Left Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G570Z3	Destruction of Right Carotid Body using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G570ZZ	Destruction of Right Carotid Body, Open Approach	PX	ICD-10-PCS
0G573Z3	Destruction of Right Carotid Body using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G573ZZ	Destruction of Right Carotid Body, Percutaneous Approach	PX	ICD-10-PCS
0G574Z3	Destruction of Right Carotid Body using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G574ZZ	Destruction of Right Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G580Z3	Destruction of Bilateral Carotid Bodies using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G580ZZ	Destruction of Bilateral Carotid Bodies, Open Approach	PX	ICD-10-PCS
0G583Z3	Destruction of Bilateral Carotid Bodies using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G583ZZ	Destruction of Bilateral Carotid Bodies, Percutaneous Approach	PX	ICD-10-PCS
0G584Z3	Destruction of Bilateral Carotid Bodies using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G584ZZ	Destruction of Bilateral Carotid Bodies, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0G590Z3	Destruction of Para-aortic Body using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G590ZZ	Destruction of Para-aortic Body, Open Approach	PX	ICD-10-PCS
0G593Z3	Destruction of Para-aortic Body using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G593ZZ	Destruction of Para-aortic Body, Percutaneous Approach	PX	ICD-10-PCS
0G594Z3	Destruction of Para-aortic Body using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G594ZZ	Destruction of Para-aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5B0Z3	Destruction of Coccygeal Glomus using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5B0ZZ	Destruction of Coccygeal Glomus, Open Approach	PX	ICD-10-PCS
0G5B3Z3	Destruction of Coccygeal Glomus using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5B3ZZ	Destruction of Coccygeal Glomus, Percutaneous Approach	PX	ICD-10-PCS
0G5B4Z3	Destruction of Coccygeal Glomus using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5B4ZZ	Destruction of Coccygeal Glomus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5C0Z3	Destruction of Glomus Jugulare using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5C0ZZ	Destruction of Glomus Jugulare, Open Approach	PX	ICD-10-PCS
0G5C3Z3	Destruction of Glomus Jugulare using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5C3ZZ	Destruction of Glomus Jugulare, Percutaneous Approach	PX	ICD-10-PCS
0G5C4Z3	Destruction of Glomus Jugulare using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5C4ZZ	Destruction of Glomus Jugulare, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5D0Z3	Destruction of Aortic Body using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5D0ZZ	Destruction of Aortic Body, Open Approach	PX	ICD-10-PCS
0G5D3Z3	Destruction of Aortic Body using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5D3ZZ	Destruction of Aortic Body, Percutaneous Approach	PX	ICD-10-PCS
0G5D4Z3	Destruction of Aortic Body using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5D4ZZ	Destruction of Aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5F0Z3	Destruction of Paraganglion Extremity using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5F0ZZ	Destruction of Paraganglion Extremity, Open Approach	PX	ICD-10-PCS
0G5F3Z3	Destruction of Paraganglion Extremity using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5F3ZZ	Destruction of Paraganglion Extremity, Percutaneous Approach	PX	ICD-10-PCS
0G5F4Z3	Destruction of Paraganglion Extremity using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5F4ZZ	Destruction of Paraganglion Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0G5G0Z3	Destruction of Left Thyroid Gland Lobe using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5G0ZZ	Destruction of Left Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0G5G3Z3	Destruction of Left Thyroid Gland Lobe using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5G3ZZ	Destruction of Left Thyroid Gland Lobe, Percutaneous Approach	PX	ICD-10-PCS
0G5G4Z3	Destruction of Left Thyroid Gland Lobe using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5G4ZZ	Destruction of Left Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5H0Z3	Destruction of Right Thyroid Gland Lobe using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5H0ZZ	Destruction of Right Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0G5H3Z3	Destruction of Right Thyroid Gland Lobe using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5H3ZZ	Destruction of Right Thyroid Gland Lobe, Percutaneous Approach	PX	ICD-10-PCS
0G5H4Z3	Destruction of Right Thyroid Gland Lobe using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5H4ZZ	Destruction of Right Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5K0Z3	Destruction of Thyroid Gland using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5K0ZZ	Destruction of Thyroid Gland, Open Approach	PX	ICD-10-PCS
0G5K3Z3	Destruction of Thyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5K3ZZ	Destruction of Thyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0G5K4Z3	Destruction of Thyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5K4ZZ	Destruction of Thyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5L0Z3	Destruction of Right Superior Parathyroid Gland using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5L0ZZ	Destruction of Right Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0G5L3Z3	Destruction of Right Superior Parathyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5L3ZZ	Destruction of Right Superior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0G5L4Z3	Destruction of Right Superior Parathyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5L4ZZ	Destruction of Right Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5M0Z3	Destruction of Left Superior Parathyroid Gland using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5M0ZZ	Destruction of Left Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0G5M3Z3	Destruction of Left Superior Parathyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5M3ZZ	Destruction of Left Superior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0G5M4Z3	Destruction of Left Superior Parathyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0G5M4ZZ	Destruction of Left Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5N0Z3	Destruction of Right Inferior Parathyroid Gland using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5N0ZZ	Destruction of Right Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0G5N3Z3	Destruction of Right Inferior Parathyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5N3ZZ	Destruction of Right Inferior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0G5N4Z3	Destruction of Right Inferior Parathyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5N4ZZ	Destruction of Right Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5P0Z3	Destruction of Left Inferior Parathyroid Gland using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5P0ZZ	Destruction of Left Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0G5P3Z3	Destruction of Left Inferior Parathyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5P3ZZ	Destruction of Left Inferior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0G5P4Z3	Destruction of Left Inferior Parathyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5P4ZZ	Destruction of Left Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5Q0Z3	Destruction of Multiple Parathyroid Glands using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5Q0ZZ	Destruction of Multiple Parathyroid Glands, Open Approach	PX	ICD-10-PCS
0G5Q3Z3	Destruction of Multiple Parathyroid Glands using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5Q3ZZ	Destruction of Multiple Parathyroid Glands, Percutaneous Approach	PX	ICD-10-PCS
0G5Q4Z3	Destruction of Multiple Parathyroid Glands using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5Q4ZZ	Destruction of Multiple Parathyroid Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5R0Z3	Destruction of Parathyroid Gland using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0G5R0ZZ	Destruction of Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0G5R3Z3	Destruction of Parathyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0G5R3ZZ	Destruction of Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0G5R4Z3	Destruction of Parathyroid Gland using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G5R4ZZ	Destruction of Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G800ZZ	Division of Pituitary Gland, Open Approach	PX	ICD-10-PCS
0G803ZZ	Division of Pituitary Gland, Percutaneous Approach	PX	ICD-10-PCS
0G804ZZ	Division of Pituitary Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G8J0ZZ	Division of Thyroid Gland Isthmus, Open Approach	PX	ICD-10-PCS
0G8J3ZZ	Division of Thyroid Gland Isthmus, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0G8J4ZZ	Division of Thyroid Gland Isthmus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9000Z	Drainage of Pituitary Gland with Drainage Device, Open Approach	PX	ICD-10-PCS
0G900ZZ	Drainage of Pituitary Gland, Open Approach	PX	ICD-10-PCS
0G9040Z	Drainage of Pituitary Gland with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G904ZZ	Drainage of Pituitary Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9100Z	Drainage of Pineal Body with Drainage Device, Open Approach	PX	ICD-10-PCS
0G910ZZ	Drainage of Pineal Body, Open Approach	PX	ICD-10-PCS
0G9140Z	Drainage of Pineal Body with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G914ZZ	Drainage of Pineal Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9200Z	Drainage of Left Adrenal Gland with Drainage Device, Open Approach	PX	ICD-10-PCS
0G920ZZ	Drainage of Left Adrenal Gland, Open Approach	PX	ICD-10-PCS
0G9240Z	Drainage of Left Adrenal Gland with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G924ZZ	Drainage of Left Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9300Z	Drainage of Right Adrenal Gland with Drainage Device, Open Approach	PX	ICD-10-PCS
0G930ZZ	Drainage of Right Adrenal Gland, Open Approach	PX	ICD-10-PCS
0G9340Z	Drainage of Right Adrenal Gland with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G934ZZ	Drainage of Right Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9400Z	Drainage of Bilateral Adrenal Glands with Drainage Device, Open Approach	PX	ICD-10-PCS
0G940ZZ	Drainage of Bilateral Adrenal Glands, Open Approach	PX	ICD-10-PCS
0G9440Z	Drainage of Bilateral Adrenal Glands with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G944ZZ	Drainage of Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9600Z	Drainage of Left Carotid Body with Drainage Device, Open Approach	PX	ICD-10-PCS
0G960ZZ	Drainage of Left Carotid Body, Open Approach	PX	ICD-10-PCS
0G9640Z	Drainage of Left Carotid Body with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G964ZZ	Drainage of Left Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9700Z	Drainage of Right Carotid Body with Drainage Device, Open Approach	PX	ICD-10-PCS
0G970ZZ	Drainage of Right Carotid Body, Open Approach	PX	ICD-10-PCS
0G9740Z	Drainage of Right Carotid Body with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G974ZZ	Drainage of Right Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9800Z	Drainage of Bilateral Carotid Bodies with Drainage Device, Open Approach	PX	ICD-10-PCS
0G980ZZ	Drainage of Bilateral Carotid Bodies, Open Approach	PX	ICD-10-PCS
0G9840Z	Drainage of Bilateral Carotid Bodies with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G984ZZ	Drainage of Bilateral Carotid Bodies, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9900Z	Drainage of Para-aortic Body with Drainage Device, Open Approach	PX	ICD-10-PCS
0G990ZZ	Drainage of Para-aortic Body, Open Approach	PX	ICD-10-PCS
0G9940Z	Drainage of Para-aortic Body with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0G994ZZ	Drainage of Para-aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9B00Z	Drainage of Coccygeal Glomus with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9B0ZZ	Drainage of Coccygeal Glomus, Open Approach	PX	ICD-10-PCS
0G9B40Z	Drainage of Coccygeal Glomus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9B4ZZ	Drainage of Coccygeal Glomus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9C00Z	Drainage of Glomus Jugulare with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9C0ZZ	Drainage of Glomus Jugulare, Open Approach	PX	ICD-10-PCS
0G9C40Z	Drainage of Glomus Jugulare with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9C4ZZ	Drainage of Glomus Jugulare, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9D00Z	Drainage of Aortic Body with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9D0ZZ	Drainage of Aortic Body, Open Approach	PX	ICD-10-PCS
0G9D40Z	Drainage of Aortic Body with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9D4ZZ	Drainage of Aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9F00Z	Drainage of Paraganglion Extremity with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9F0ZZ	Drainage of Paraganglion Extremity, Open Approach	PX	ICD-10-PCS
0G9F40Z	Drainage of Paraganglion Extremity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9F4ZZ	Drainage of Paraganglion Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9G00Z	Drainage of Left Thyroid Gland Lobe with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9G0ZZ	Drainage of Left Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0G9G40Z	Drainage of Left Thyroid Gland Lobe with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9G4ZZ	Drainage of Left Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9H00Z	Drainage of Right Thyroid Gland Lobe with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9H0ZZ	Drainage of Right Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0G9H40Z	Drainage of Right Thyroid Gland Lobe with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9H4ZZ	Drainage of Right Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9K00Z	Drainage of Thyroid Gland with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9K0ZZ	Drainage of Thyroid Gland, Open Approach	PX	ICD-10-PCS
0G9K40Z	Drainage of Thyroid Gland with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9K4ZZ	Drainage of Thyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9L00Z	Drainage of Right Superior Parathyroid Gland with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9L0ZZ	Drainage of Right Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0G9L40Z	Drainage of Right Superior Parathyroid Gland with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9L4ZZ	Drainage of Right Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9M00Z	Drainage of Left Superior Parathyroid Gland with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0G9M0ZZ	Drainage of Left Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0G9M40Z	Drainage of Left Superior Parathyroid Gland with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9M4ZZ	Drainage of Left Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9N00Z	Drainage of Right Inferior Parathyroid Gland with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9N0ZZ	Drainage of Right Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0G9N40Z	Drainage of Right Inferior Parathyroid Gland with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9N4ZZ	Drainage of Right Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9P00Z	Drainage of Left Inferior Parathyroid Gland with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9P0ZZ	Drainage of Left Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0G9P40Z	Drainage of Left Inferior Parathyroid Gland with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9P4ZZ	Drainage of Left Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9Q00Z	Drainage of Multiple Parathyroid Glands with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9Q0ZZ	Drainage of Multiple Parathyroid Glands, Open Approach	PX	ICD-10-PCS
0G9Q40Z	Drainage of Multiple Parathyroid Glands with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9Q4ZZ	Drainage of Multiple Parathyroid Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9R00Z	Drainage of Parathyroid Gland with Drainage Device, Open Approach	PX	ICD-10-PCS
0G9R0ZZ	Drainage of Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0G9R40Z	Drainage of Parathyroid Gland with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0G9R4ZZ	Drainage of Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GB00ZZ	Excision of Pituitary Gland, Open Approach	PX	ICD-10-PCS
0GB03ZZ	Excision of Pituitary Gland, Percutaneous Approach	PX	ICD-10-PCS
0GB04ZZ	Excision of Pituitary Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GB10ZZ	Excision of Pineal Body, Open Approach	PX	ICD-10-PCS
0GB13ZZ	Excision of Pineal Body, Percutaneous Approach	PX	ICD-10-PCS
0GB14ZZ	Excision of Pineal Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GB20ZZ	Excision of Left Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GB23ZZ	Excision of Left Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0GB24ZZ	Excision of Left Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GB30ZZ	Excision of Right Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GB33ZZ	Excision of Right Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0GB34ZZ	Excision of Right Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GB40ZZ	Excision of Bilateral Adrenal Glands, Open Approach	PX	ICD-10-PCS
0GB43ZZ	Excision of Bilateral Adrenal Glands, Percutaneous Approach	PX	ICD-10-PCS
0GB44ZZ	Excision of Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GB60ZZ	Excision of Left Carotid Body, Open Approach	PX	ICD-10-PCS
0GB64ZZ	Excision of Left Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0GB70ZZ	Excision of Right Carotid Body, Open Approach	PX	ICD-10-PCS
0GB74ZZ	Excision of Right Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GB80ZZ	Excision of Bilateral Carotid Bodies, Open Approach	PX	ICD-10-PCS
0GB84ZZ	Excision of Bilateral Carotid Bodies, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GB90ZZ	Excision of Para-aortic Body, Open Approach	PX	ICD-10-PCS
0GB94ZZ	Excision of Para-aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBB0ZZ	Excision of Coccygeal Glomus, Open Approach	PX	ICD-10-PCS
0GBB4ZZ	Excision of Coccygeal Glomus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBC0ZZ	Excision of Glomus Jugulare, Open Approach	PX	ICD-10-PCS
0GBC4ZZ	Excision of Glomus Jugulare, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBD0ZZ	Excision of Aortic Body, Open Approach	PX	ICD-10-PCS
0GBD4ZZ	Excision of Aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBF0ZZ	Excision of Paraganglion Extremity, Open Approach	PX	ICD-10-PCS
0GBF4ZZ	Excision of Paraganglion Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBG0ZZ	Excision of Left Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GBG3ZZ	Excision of Left Thyroid Gland Lobe, Percutaneous Approach	PX	ICD-10-PCS
0GBG4ZZ	Excision of Left Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBH0ZZ	Excision of Right Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GBH3ZZ	Excision of Right Thyroid Gland Lobe, Percutaneous Approach	PX	ICD-10-PCS
0GBH4ZZ	Excision of Right Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBJ0ZZ	Excision of Thyroid Gland Isthmus, Open Approach	PX	ICD-10-PCS
0GBJ3ZZ	Excision of Thyroid Gland Isthmus, Percutaneous Approach	PX	ICD-10-PCS
0GBJ4ZZ	Excision of Thyroid Gland Isthmus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBL0ZZ	Excision of Right Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GBL3ZZ	Excision of Right Superior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GBL4ZZ	Excision of Right Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBM0ZZ	Excision of Left Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GBM3ZZ	Excision of Left Superior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GBM4ZZ	Excision of Left Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBN0ZZ	Excision of Right Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GBN3ZZ	Excision of Right Inferior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GBN4ZZ	Excision of Right Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBP0ZZ	Excision of Left Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GBP3ZZ	Excision of Left Inferior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GBP4ZZ	Excision of Left Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBQ0ZZ	Excision of Multiple Parathyroid Glands, Open Approach	PX	ICD-10-PCS
0GBQ3ZZ	Excision of Multiple Parathyroid Glands, Percutaneous Approach	PX	ICD-10-PCS
0GBQ4ZZ	Excision of Multiple Parathyroid Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GBR0ZZ	Excision of Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GBR3ZZ	Excision of Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GBR4ZZ	Excision of Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GC00ZZ	Extirpation of Matter from Pituitary Gland, Open Approach	PX	ICD-10-PCS
0GC03ZZ	Extirpation of Matter from Pituitary Gland, Percutaneous Approach	PX	ICD-10-PCS
0GC04ZZ	Extirpation of Matter from Pituitary Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0GC10ZZ	Extirpation of Matter from Pineal Body, Open Approach	PX	ICD-10-PCS
0GC13ZZ	Extirpation of Matter from Pineal Body, Percutaneous Approach	PX	ICD-10-PCS
0GC14ZZ	Extirpation of Matter from Pineal Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GC20ZZ	Extirpation of Matter from Left Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GC23ZZ	Extirpation of Matter from Left Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0GC24ZZ	Extirpation of Matter from Left Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GC30ZZ	Extirpation of Matter from Right Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GC33ZZ	Extirpation of Matter from Right Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0GC34ZZ	Extirpation of Matter from Right Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GC40ZZ	Extirpation of Matter from Bilateral Adrenal Glands, Open Approach	PX	ICD-10-PCS
0GC43ZZ	Extirpation of Matter from Bilateral Adrenal Glands, Percutaneous Approach	PX	ICD-10-PCS
0GC44ZZ	Extirpation of Matter from Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GC60ZZ	Extirpation of Matter from Left Carotid Body, Open Approach	PX	ICD-10-PCS
0GC64ZZ	Extirpation of Matter from Left Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GC70ZZ	Extirpation of Matter from Right Carotid Body, Open Approach	PX	ICD-10-PCS
0GC74ZZ	Extirpation of Matter from Right Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GC80ZZ	Extirpation of Matter from Bilateral Carotid Bodies, Open Approach	PX	ICD-10-PCS
0GC84ZZ	Extirpation of Matter from Bilateral Carotid Bodies, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GC90ZZ	Extirpation of Matter from Para-aortic Body, Open Approach	PX	ICD-10-PCS
0GC94ZZ	Extirpation of Matter from Para-aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCB0ZZ	Extirpation of Matter from Coccygeal Glomus, Open Approach	PX	ICD-10-PCS
0GCB4ZZ	Extirpation of Matter from Coccygeal Glomus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCC0ZZ	Extirpation of Matter from Glomus Jugulare, Open Approach	PX	ICD-10-PCS
0GCC4ZZ	Extirpation of Matter from Glomus Jugulare, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCD0ZZ	Extirpation of Matter from Aortic Body, Open Approach	PX	ICD-10-PCS
0GCD4ZZ	Extirpation of Matter from Aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCF0ZZ	Extirpation of Matter from Paraganglion Extremity, Open Approach	PX	ICD-10-PCS
0GCF4ZZ	Extirpation of Matter from Paraganglion Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCG0ZZ	Extirpation of Matter from Left Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GCG3ZZ	Extirpation of Matter from Left Thyroid Gland Lobe, Percutaneous Approach	PX	ICD-10-PCS
0GCG4ZZ	Extirpation of Matter from Left Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCH0ZZ	Extirpation of Matter from Right Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GCH3ZZ	Extirpation of Matter from Right Thyroid Gland Lobe, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0GCH4ZZ	Extirpation of Matter from Right Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCK0ZZ	Extirpation of Matter from Thyroid Gland, Open Approach	PX	ICD-10-PCS
0GCK3ZZ	Extirpation of Matter from Thyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GCK4ZZ	Extirpation of Matter from Thyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCL0ZZ	Extirpation of Matter from Right Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GCL3ZZ	Extirpation of Matter from Right Superior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GCL4ZZ	Extirpation of Matter from Right Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCM0ZZ	Extirpation of Matter from Left Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GCM3ZZ	Extirpation of Matter from Left Superior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GCM4ZZ	Extirpation of Matter from Left Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCN0ZZ	Extirpation of Matter from Right Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GCN3ZZ	Extirpation of Matter from Right Inferior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GCN4ZZ	Extirpation of Matter from Right Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCP0ZZ	Extirpation of Matter from Left Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GCP3ZZ	Extirpation of Matter from Left Inferior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GCP4ZZ	Extirpation of Matter from Left Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCQ0ZZ	Extirpation of Matter from Multiple Parathyroid Glands, Open Approach	PX	ICD-10-PCS
0GCQ3ZZ	Extirpation of Matter from Multiple Parathyroid Glands, Percutaneous Approach	PX	ICD-10-PCS
0GCQ4ZZ	Extirpation of Matter from Multiple Parathyroid Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GCR0ZZ	Extirpation of Matter from Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GCR3ZZ	Extirpation of Matter from Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GCR4ZZ	Extirpation of Matter from Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GHS01Z	Insertion of Radioactive Element into Endocrine Gland, Open Approach	PX	ICD-10-PCS
0GHS03Z	Insertion of Infusion Device into Endocrine Gland, Open Approach	PX	ICD-10-PCS
0GHS0YZ	Insertion of Other Device into Endocrine Gland, Open Approach	PX	ICD-10-PCS
0GHS33Z	Insertion of Infusion Device into Endocrine Gland, Percutaneous Approach	PX	ICD-10-PCS
0GHS3YZ	Insertion of Other Device into Endocrine Gland, Percutaneous Approach	PX	ICD-10-PCS
0GHS41Z	Insertion of Radioactive Element into Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GHS43Z	Insertion of Infusion Device into Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GHS4YZ	Insertion of Other Device into Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0GM20ZZ	Reattachment of Left Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GM24ZZ	Reattachment of Left Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GM30ZZ	Reattachment of Right Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GM34ZZ	Reattachment of Right Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GMG0ZZ	Reattachment of Left Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GMG4ZZ	Reattachment of Left Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GMH0ZZ	Reattachment of Right Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GMH4ZZ	Reattachment of Right Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GML0ZZ	Reattachment of Right Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GML4ZZ	Reattachment of Right Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GMM0ZZ	Reattachment of Left Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GMM4ZZ	Reattachment of Left Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GMN0ZZ	Reattachment of Right Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GMN4ZZ	Reattachment of Right Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GMP0ZZ	Reattachment of Left Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GMP4ZZ	Reattachment of Left Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GMQ0ZZ	Reattachment of Multiple Parathyroid Glands, Open Approach	PX	ICD-10-PCS
0GMQ4ZZ	Reattachment of Multiple Parathyroid Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GMR0ZZ	Reattachment of Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GMR4ZZ	Reattachment of Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GN00ZZ	Release Pituitary Gland, Open Approach	PX	ICD-10-PCS
0GN03ZZ	Release Pituitary Gland, Percutaneous Approach	PX	ICD-10-PCS
0GN04ZZ	Release Pituitary Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GN10ZZ	Release Pineal Body, Open Approach	PX	ICD-10-PCS
0GN13ZZ	Release Pineal Body, Percutaneous Approach	PX	ICD-10-PCS
0GN14ZZ	Release Pineal Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GN20ZZ	Release Left Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GN23ZZ	Release Left Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0GN24ZZ	Release Left Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GN30ZZ	Release Right Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GN33ZZ	Release Right Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0GN34ZZ	Release Right Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GN40ZZ	Release Bilateral Adrenal Glands, Open Approach	PX	ICD-10-PCS
0GN43ZZ	Release Bilateral Adrenal Glands, Percutaneous Approach	PX	ICD-10-PCS
0GN44ZZ	Release Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GN60ZZ	Release Left Carotid Body, Open Approach	PX	ICD-10-PCS
0GN64ZZ	Release Left Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GN70ZZ	Release Right Carotid Body, Open Approach	PX	ICD-10-PCS
0GN74ZZ	Release Right Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GN80ZZ	Release Bilateral Carotid Bodies, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0GN84ZZ	Release Bilateral Carotid Bodies, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GN90ZZ	Release Para-aortic Body, Open Approach	PX	ICD-10-PCS
0GN94ZZ	Release Para-aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNB0ZZ	Release Coccygeal Glomus, Open Approach	PX	ICD-10-PCS
0GNB4ZZ	Release Coccygeal Glomus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNC0ZZ	Release Glomus Jugulare, Open Approach	PX	ICD-10-PCS
0GNC4ZZ	Release Glomus Jugulare, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GND0ZZ	Release Aortic Body, Open Approach	PX	ICD-10-PCS
0GND4ZZ	Release Aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNF0ZZ	Release Paraganglion Extremity, Open Approach	PX	ICD-10-PCS
0GNF4ZZ	Release Paraganglion Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNG0ZZ	Release Left Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GNG3ZZ	Release Left Thyroid Gland Lobe, Percutaneous Approach	PX	ICD-10-PCS
0GNG4ZZ	Release Left Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNH0ZZ	Release Right Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GNH3ZZ	Release Right Thyroid Gland Lobe, Percutaneous Approach	PX	ICD-10-PCS
0GNH4ZZ	Release Right Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNK0ZZ	Release Thyroid Gland, Open Approach	PX	ICD-10-PCS
0GNK3ZZ	Release Thyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GNK4ZZ	Release Thyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNL0ZZ	Release Right Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GNL3ZZ	Release Right Superior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GNL4ZZ	Release Right Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNM0ZZ	Release Left Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GNM3ZZ	Release Left Superior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GNM4ZZ	Release Left Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNN0ZZ	Release Right Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GNN3ZZ	Release Right Inferior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GNN4ZZ	Release Right Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNP0ZZ	Release Left Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GNP3ZZ	Release Left Inferior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GNP4ZZ	Release Left Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNQ0ZZ	Release Multiple Parathyroid Glands, Open Approach	PX	ICD-10-PCS
0GNQ3ZZ	Release Multiple Parathyroid Glands, Percutaneous Approach	PX	ICD-10-PCS
0GNQ4ZZ	Release Multiple Parathyroid Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GNR0ZZ	Release Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GNR3ZZ	Release Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GNR4ZZ	Release Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GP000Z	Removal of Drainage Device from Pituitary Gland, Open Approach	PX	ICD-10-PCS
0GP030Z	Removal of Drainage Device from Pituitary Gland, Percutaneous Approach	PX	ICD-10-PCS
0GP040Z	Removal of Drainage Device from Pituitary Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GP100Z	Removal of Drainage Device from Pineal Body, Open Approach	PX	ICD-10-PCS
0GP130Z	Removal of Drainage Device from Pineal Body, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0GP140Z	Removal of Drainage Device from Pineal Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GP500Z	Removal of Drainage Device from Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GP530Z	Removal of Drainage Device from Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0GP540Z	Removal of Drainage Device from Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GPK00Z	Removal of Drainage Device from Thyroid Gland, Open Approach	PX	ICD-10-PCS
0GPK30Z	Removal of Drainage Device from Thyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GPK40Z	Removal of Drainage Device from Thyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GPR00Z	Removal of Drainage Device from Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GPR30Z	Removal of Drainage Device from Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GPR40Z	Removal of Drainage Device from Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GPS00Z	Removal of Drainage Device from Endocrine Gland, Open Approach	PX	ICD-10-PCS
0GPS02Z	Removal of Monitoring Device from Endocrine Gland, Open Approach	PX	ICD-10-PCS
0GPS03Z	Removal of Infusion Device from Endocrine Gland, Open Approach	PX	ICD-10-PCS
0GPS0YZ	Removal of Other Device from Endocrine Gland, Open Approach	PX	ICD-10-PCS
0GPS40Z	Removal of Drainage Device from Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GPS42Z	Removal of Monitoring Device from Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GPS43Z	Removal of Infusion Device from Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GPS4YZ	Removal of Other Device from Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQ00ZZ	Repair Pituitary Gland, Open Approach	PX	ICD-10-PCS
0GQ03ZZ	Repair Pituitary Gland, Percutaneous Approach	PX	ICD-10-PCS
0GQ04ZZ	Repair Pituitary Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQ10ZZ	Repair Pineal Body, Open Approach	PX	ICD-10-PCS
0GQ13ZZ	Repair Pineal Body, Percutaneous Approach	PX	ICD-10-PCS
0GQ14ZZ	Repair Pineal Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQ20ZZ	Repair Left Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GQ23ZZ	Repair Left Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0GQ24ZZ	Repair Left Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQ30ZZ	Repair Right Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GQ33ZZ	Repair Right Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0GQ34ZZ	Repair Right Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQ40ZZ	Repair Bilateral Adrenal Glands, Open Approach	PX	ICD-10-PCS
0GQ43ZZ	Repair Bilateral Adrenal Glands, Percutaneous Approach	PX	ICD-10-PCS
0GQ44ZZ	Repair Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQ60ZZ	Repair Left Carotid Body, Open Approach	PX	ICD-10-PCS
0GQ64ZZ	Repair Left Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQ70ZZ	Repair Right Carotid Body, Open Approach	PX	ICD-10-PCS
0GQ74ZZ	Repair Right Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0GQ80ZZ	Repair Bilateral Carotid Bodies, Open Approach	PX	ICD-10-PCS
0GQ84ZZ	Repair Bilateral Carotid Bodies, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQ90ZZ	Repair Para-aortic Body, Open Approach	PX	ICD-10-PCS
0GQ94ZZ	Repair Para-aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQB0ZZ	Repair Coccygeal Glomus, Open Approach	PX	ICD-10-PCS
0GQB4ZZ	Repair Coccygeal Glomus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQC0ZZ	Repair Glomus Jugulare, Open Approach	PX	ICD-10-PCS
0GQC4ZZ	Repair Glomus Jugulare, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQD0ZZ	Repair Aortic Body, Open Approach	PX	ICD-10-PCS
0GQD4ZZ	Repair Aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQF0ZZ	Repair Paraganglion Extremity, Open Approach	PX	ICD-10-PCS
0GQF4ZZ	Repair Paraganglion Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQG0ZZ	Repair Left Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GQG3ZZ	Repair Left Thyroid Gland Lobe, Percutaneous Approach	PX	ICD-10-PCS
0GQG4ZZ	Repair Left Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQH0ZZ	Repair Right Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GQH3ZZ	Repair Right Thyroid Gland Lobe, Percutaneous Approach	PX	ICD-10-PCS
0GQH4ZZ	Repair Right Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQJ0ZZ	Repair Thyroid Gland Isthmus, Open Approach	PX	ICD-10-PCS
0GQJ3ZZ	Repair Thyroid Gland Isthmus, Percutaneous Approach	PX	ICD-10-PCS
0GQJ4ZZ	Repair Thyroid Gland Isthmus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQK0ZZ	Repair Thyroid Gland, Open Approach	PX	ICD-10-PCS
0GQK3ZZ	Repair Thyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GQK4ZZ	Repair Thyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQL0ZZ	Repair Right Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GQL3ZZ	Repair Right Superior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GQL4ZZ	Repair Right Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQM0ZZ	Repair Left Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GQM3ZZ	Repair Left Superior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GQM4ZZ	Repair Left Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQN0ZZ	Repair Right Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GQN3ZZ	Repair Right Inferior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GQN4ZZ	Repair Right Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQP0ZZ	Repair Left Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GQP3ZZ	Repair Left Inferior Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GQP4ZZ	Repair Left Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQQ0ZZ	Repair Multiple Parathyroid Glands, Open Approach	PX	ICD-10-PCS
0GQQ3ZZ	Repair Multiple Parathyroid Glands, Percutaneous Approach	PX	ICD-10-PCS
0GQQ4ZZ	Repair Multiple Parathyroid Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GQR0ZZ	Repair Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GQR3ZZ	Repair Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GQR4ZZ	Repair Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GS20ZZ	Reposition Left Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GS24ZZ	Reposition Left Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GS30ZZ	Reposition Right Adrenal Gland, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0GS34ZZ	Reposition Right Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GSG0ZZ	Reposition Left Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GSG4ZZ	Reposition Left Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GSH0ZZ	Reposition Right Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GSH4ZZ	Reposition Right Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GSL0ZZ	Reposition Right Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GSL4ZZ	Reposition Right Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GSM0ZZ	Reposition Left Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GSM4ZZ	Reposition Left Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GSN0ZZ	Reposition Right Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GSN4ZZ	Reposition Right Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GSP0ZZ	Reposition Left Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GSP4ZZ	Reposition Left Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GSQ0ZZ	Reposition Multiple Parathyroid Glands, Open Approach	PX	ICD-10-PCS
0GSQ4ZZ	Reposition Multiple Parathyroid Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GSR0ZZ	Reposition Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GSR4ZZ	Reposition Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GT00ZZ	Resection of Pituitary Gland, Open Approach	PX	ICD-10-PCS
0GT04ZZ	Resection of Pituitary Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GT10ZZ	Resection of Pineal Body, Open Approach	PX	ICD-10-PCS
0GT14ZZ	Resection of Pineal Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GT20ZZ	Resection of Left Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GT24ZZ	Resection of Left Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GT30ZZ	Resection of Right Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GT34ZZ	Resection of Right Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GT40ZZ	Resection of Bilateral Adrenal Glands, Open Approach	PX	ICD-10-PCS
0GT44ZZ	Resection of Bilateral Adrenal Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GT60ZZ	Resection of Left Carotid Body, Open Approach	PX	ICD-10-PCS
0GT64ZZ	Resection of Left Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GT70ZZ	Resection of Right Carotid Body, Open Approach	PX	ICD-10-PCS
0GT74ZZ	Resection of Right Carotid Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GT80ZZ	Resection of Bilateral Carotid Bodies, Open Approach	PX	ICD-10-PCS
0GT84ZZ	Resection of Bilateral Carotid Bodies, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GT90ZZ	Resection of Para-aortic Body, Open Approach	PX	ICD-10-PCS
0GT94ZZ	Resection of Para-aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTB0ZZ	Resection of Coccygeal Glomus, Open Approach	PX	ICD-10-PCS
0GTB4ZZ	Resection of Coccygeal Glomus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTC0ZZ	Resection of Glomus Jugulare, Open Approach	PX	ICD-10-PCS
0GTC4ZZ	Resection of Glomus Jugulare, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTD0ZZ	Resection of Aortic Body, Open Approach	PX	ICD-10-PCS
0GTD4ZZ	Resection of Aortic Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTF0ZZ	Resection of Paraganglion Extremity, Open Approach	PX	ICD-10-PCS
0GTF4ZZ	Resection of Paraganglion Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0GTG0ZZ	Resection of Left Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GTG4ZZ	Resection of Left Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTH0ZZ	Resection of Right Thyroid Gland Lobe, Open Approach	PX	ICD-10-PCS
0GTH4ZZ	Resection of Right Thyroid Gland Lobe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTJ0ZZ	Resection of Thyroid Gland Isthmus, Open Approach	PX	ICD-10-PCS
0GTJ4ZZ	Resection of Thyroid Gland Isthmus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTK0ZZ	Resection of Thyroid Gland, Open Approach	PX	ICD-10-PCS
0GTK4ZZ	Resection of Thyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTL0ZZ	Resection of Right Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GTL4ZZ	Resection of Right Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTM0ZZ	Resection of Left Superior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GTM4ZZ	Resection of Left Superior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTN0ZZ	Resection of Right Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GTN4ZZ	Resection of Right Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTP0ZZ	Resection of Left Inferior Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GTP4ZZ	Resection of Left Inferior Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTQ0ZZ	Resection of Multiple Parathyroid Glands, Open Approach	PX	ICD-10-PCS
0GTQ4ZZ	Resection of Multiple Parathyroid Glands, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GTR0ZZ	Resection of Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GTR4ZZ	Resection of Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GW000Z	Revision of Drainage Device in Pituitary Gland, Open Approach	PX	ICD-10-PCS
0GW030Z	Revision of Drainage Device in Pituitary Gland, Percutaneous Approach	PX	ICD-10-PCS
0GW040Z	Revision of Drainage Device in Pituitary Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GW100Z	Revision of Drainage Device in Pineal Body, Open Approach	PX	ICD-10-PCS
0GW130Z	Revision of Drainage Device in Pineal Body, Percutaneous Approach	PX	ICD-10-PCS
0GW140Z	Revision of Drainage Device in Pineal Body, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GW500Z	Revision of Drainage Device in Adrenal Gland, Open Approach	PX	ICD-10-PCS
0GW530Z	Revision of Drainage Device in Adrenal Gland, Percutaneous Approach	PX	ICD-10-PCS
0GW540Z	Revision of Drainage Device in Adrenal Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GWK00Z	Revision of Drainage Device in Thyroid Gland, Open Approach	PX	ICD-10-PCS
0GWK30Z	Revision of Drainage Device in Thyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GWK40Z	Revision of Drainage Device in Thyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GWR00Z	Revision of Drainage Device in Parathyroid Gland, Open Approach	PX	ICD-10-PCS
0GWR30Z	Revision of Drainage Device in Parathyroid Gland, Percutaneous Approach	PX	ICD-10-PCS
0GWR40Z	Revision of Drainage Device in Parathyroid Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GWS00Z	Revision of Drainage Device in Endocrine Gland, Open Approach	PX	ICD-10-PCS
0GWS02Z	Revision of Monitoring Device in Endocrine Gland, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0GWS03Z	Revision of Infusion Device in Endocrine Gland, Open Approach	PX	ICD-10-PCS
0GWS0YZ	Revision of Other Device in Endocrine Gland, Open Approach	PX	ICD-10-PCS
0GWS40Z	Revision of Drainage Device in Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GWS42Z	Revision of Monitoring Device in Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GWS43Z	Revision of Infusion Device in Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0GWS4YZ	Revision of Other Device in Endocrine Gland, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0H0T07Z	Alteration of Right Breast with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0H0T0JZ	Alteration of Right Breast with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0H0T0KZ	Alteration of Right Breast with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0H0T0ZZ	Alteration of Right Breast, Open Approach	PX	ICD-10-PCS
0H0T37Z	Alteration of Right Breast with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0H0T3KZ	Alteration of Right Breast with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0H0T3ZZ	Alteration of Right Breast, Percutaneous Approach	PX	ICD-10-PCS
0H0TX7Z	Alteration of Right Breast with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0H0TXJZ	Alteration of Right Breast with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0H0TXKZ	Alteration of Right Breast with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0H0TXZZ	Alteration of Right Breast, External Approach	PX	ICD-10-PCS
0H0U07Z	Alteration of Left Breast with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0H0U0JZ	Alteration of Left Breast with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0H0U0KZ	Alteration of Left Breast with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0H0U0ZZ	Alteration of Left Breast, Open Approach	PX	ICD-10-PCS
0H0U37Z	Alteration of Left Breast with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0H0U3KZ	Alteration of Left Breast with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0H0U3ZZ	Alteration of Left Breast, Percutaneous Approach	PX	ICD-10-PCS
0H0UX7Z	Alteration of Left Breast with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0H0UXJZ	Alteration of Left Breast with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0H0UXKZ	Alteration of Left Breast with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0H0UXZZ	Alteration of Left Breast, External Approach	PX	ICD-10-PCS
0H0V07Z	Alteration of Bilateral Breast with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0H0V0JZ	Alteration of Bilateral Breast with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0H0V0KZ	Alteration of Bilateral Breast with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0H0V0ZZ	Alteration of Bilateral Breast, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0H0V37Z	Alteration of Bilateral Breast with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0H0V3KZ	Alteration of Bilateral Breast with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0H0V3ZZ	Alteration of Bilateral Breast, Percutaneous Approach	PX	ICD-10-PCS
0H0VX7Z	Alteration of Bilateral Breast with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0H0VXJZ	Alteration of Bilateral Breast with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0H0VXKZ	Alteration of Bilateral Breast with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0H0VXZZ	Alteration of Bilateral Breast, External Approach	PX	ICD-10-PCS
0H5T0Z3	Destruction of Right Breast using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0H5T0ZZ	Destruction of Right Breast, Open Approach	PX	ICD-10-PCS
0H5T3Z3	Destruction of Right Breast using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0H5T3ZZ	Destruction of Right Breast, Percutaneous Approach	PX	ICD-10-PCS
0H5T7ZZ	Destruction of Right Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0H5T8ZZ	Destruction of Right Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0H5TXZZ	Destruction of Right Breast, External Approach	PX	ICD-10-PCS
0H5U0Z3	Destruction of Left Breast using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0H5U0ZZ	Destruction of Left Breast, Open Approach	PX	ICD-10-PCS
0H5U3Z3	Destruction of Left Breast using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0H5U3ZZ	Destruction of Left Breast, Percutaneous Approach	PX	ICD-10-PCS
0H5U7ZZ	Destruction of Left Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0H5U8ZZ	Destruction of Left Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0H5UXZZ	Destruction of Left Breast, External Approach	PX	ICD-10-PCS
0H5V0Z3	Destruction of Bilateral Breast using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0H5V0ZZ	Destruction of Bilateral Breast, Open Approach	PX	ICD-10-PCS
0H5V3Z3	Destruction of Bilateral Breast using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0H5V3ZZ	Destruction of Bilateral Breast, Percutaneous Approach	PX	ICD-10-PCS
0H5V7ZZ	Destruction of Bilateral Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0H5V8ZZ	Destruction of Bilateral Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0H5VXZZ	Destruction of Bilateral Breast, External Approach	PX	ICD-10-PCS
0H5W0ZZ	Destruction of Right Nipple, Open Approach	PX	ICD-10-PCS
0H5W3ZZ	Destruction of Right Nipple, Percutaneous Approach	PX	ICD-10-PCS
0H5W7ZZ	Destruction of Right Nipple, Via Natural or Artificial Opening	PX	ICD-10-PCS
0H5W8ZZ	Destruction of Right Nipple, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0H5WXZZ	Destruction of Right Nipple, External Approach	PX	ICD-10-PCS
0H5X0ZZ	Destruction of Left Nipple, Open Approach	PX	ICD-10-PCS
0H5X3ZZ	Destruction of Left Nipple, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0H5X7ZZ	Destruction of Left Nipple, Via Natural or Artificial Opening	PX	ICD-10-PCS
0H5X8ZZ	Destruction of Left Nipple, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0H5XXZZ	Destruction of Left Nipple, External Approach	PX	ICD-10-PCS
0H99X0Z	Drainage of Perineum Skin with Drainage Device, External Approach	PX	ICD-10-PCS
0H99XZZ	Drainage of Perineum Skin, External Approach	PX	ICD-10-PCS
0H9T0ZZ	Drainage of Right Breast, Open Approach	PX	ICD-10-PCS
0H9U0ZZ	Drainage of Left Breast, Open Approach	PX	ICD-10-PCS
0H9V0ZZ	Drainage of Bilateral Breast, Open Approach	PX	ICD-10-PCS
0H9W0ZZ	Drainage of Right Nipple, Open Approach	PX	ICD-10-PCS
0H9X0ZZ	Drainage of Left Nipple, Open Approach	PX	ICD-10-PCS
0HBT0ZZ	Excision of Right Breast, Open Approach	PX	ICD-10-PCS
0HBT3ZZ	Excision of Right Breast, Percutaneous Approach	PX	ICD-10-PCS
0HBT7ZZ	Excision of Right Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HBT8ZZ	Excision of Right Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HBU0ZZ	Excision of Left Breast, Open Approach	PX	ICD-10-PCS
0HBU3ZZ	Excision of Left Breast, Percutaneous Approach	PX	ICD-10-PCS
0HBU7ZZ	Excision of Left Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HBU8ZZ	Excision of Left Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HBV0ZZ	Excision of Bilateral Breast, Open Approach	PX	ICD-10-PCS
0HBV3ZZ	Excision of Bilateral Breast, Percutaneous Approach	PX	ICD-10-PCS
0HBV7ZZ	Excision of Bilateral Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HBV8ZZ	Excision of Bilateral Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HBW0ZZ	Excision of Right Nipple, Open Approach	PX	ICD-10-PCS
0HBW3ZZ	Excision of Right Nipple, Percutaneous Approach	PX	ICD-10-PCS
0HBW7ZZ	Excision of Right Nipple, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HBW8ZZ	Excision of Right Nipple, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HBX0ZZ	Excision of Left Nipple, Open Approach	PX	ICD-10-PCS
0HBX3ZZ	Excision of Left Nipple, Percutaneous Approach	PX	ICD-10-PCS
0HBX7ZZ	Excision of Left Nipple, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HBX8ZZ	Excision of Left Nipple, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HBY0ZZ	Excision of Supernumerary Breast, Open Approach	PX	ICD-10-PCS
0HBY3ZZ	Excision of Supernumerary Breast, Percutaneous Approach	PX	ICD-10-PCS
0HBY7ZZ	Excision of Supernumerary Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HBY8ZZ	Excision of Supernumerary Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HHT01Z	Insertion of Radioactive Element into Right Breast, Open Approach	PX	ICD-10-PCS
0HHT0NZ	Insertion of Tissue Expander into Right Breast, Open Approach	PX	ICD-10-PCS
0HHT0YZ	Insertion of Other Device into Right Breast, Open Approach	PX	ICD-10-PCS
0HHT3NZ	Insertion of Tissue Expander into Right Breast, Percutaneous Approach	PX	ICD-10-PCS
0HHT7NZ	Insertion of Tissue Expander into Right Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HHT7YZ	Insertion of Other Device into Right Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HHT8NZ	Insertion of Tissue Expander into Right Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HHT8YZ	Insertion of Other Device into Right Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HHU01Z	Insertion of Radioactive Element into Left Breast, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HHU0NZ	Insertion of Tissue Expander into Left Breast, Open Approach	PX	ICD-10-PCS
0HHU0YZ	Insertion of Other Device into Left Breast, Open Approach	PX	ICD-10-PCS
0HHU3NZ	Insertion of Tissue Expander into Left Breast, Percutaneous Approach	PX	ICD-10-PCS
0HHU7NZ	Insertion of Tissue Expander into Left Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HHU7YZ	Insertion of Other Device into Left Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HHU8NZ	Insertion of Tissue Expander into Left Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HHU8YZ	Insertion of Other Device into Left Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HHV01Z	Insertion of Radioactive Element into Bilateral Breast, Open Approach	PX	ICD-10-PCS
0HHV0NZ	Insertion of Tissue Expander into Bilateral Breast, Open Approach	PX	ICD-10-PCS
0HHV3NZ	Insertion of Tissue Expander into Bilateral Breast, Percutaneous Approach	PX	ICD-10-PCS
0HHV7NZ	Insertion of Tissue Expander into Bilateral Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HHV8NZ	Insertion of Tissue Expander into Bilateral Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HHW01Z	Insertion of Radioactive Element into Right Nipple, Open Approach	PX	ICD-10-PCS
0HHW0NZ	Insertion of Tissue Expander into Right Nipple, Open Approach	PX	ICD-10-PCS
0HHW3NZ	Insertion of Tissue Expander into Right Nipple, Percutaneous Approach	PX	ICD-10-PCS
0HHW7NZ	Insertion of Tissue Expander into Right Nipple, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HHW8NZ	Insertion of Tissue Expander into Right Nipple, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HHX01Z	Insertion of Radioactive Element into Left Nipple, Open Approach	PX	ICD-10-PCS
0HHX0NZ	Insertion of Tissue Expander into Left Nipple, Open Approach	PX	ICD-10-PCS
0HHX3NZ	Insertion of Tissue Expander into Left Nipple, Percutaneous Approach	PX	ICD-10-PCS
0HHX7NZ	Insertion of Tissue Expander into Left Nipple, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HHX8NZ	Insertion of Tissue Expander into Left Nipple, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HM1XZZ	Reattachment of Face Skin, External Approach	PX	ICD-10-PCS
0HM2XZZ	Reattachment of Right Ear Skin, External Approach	PX	ICD-10-PCS
0HM3XZZ	Reattachment of Left Ear Skin, External Approach	PX	ICD-10-PCS
0HM4XZZ	Reattachment of Neck Skin, External Approach	PX	ICD-10-PCS
0HM5XZZ	Reattachment of Chest Skin, External Approach	PX	ICD-10-PCS
0HM6XZZ	Reattachment of Back Skin, External Approach	PX	ICD-10-PCS
0HM7XZZ	Reattachment of Abdomen Skin, External Approach	PX	ICD-10-PCS
0HM8XZZ	Reattachment of Buttock Skin, External Approach	PX	ICD-10-PCS
0HM9XZZ	Reattachment of Perineum Skin, External Approach	PX	ICD-10-PCS
0HMAXZZ	Reattachment of Inguinal Skin, External Approach	PX	ICD-10-PCS
0HMBXZZ	Reattachment of Right Upper Arm Skin, External Approach	PX	ICD-10-PCS
0HMCXZZ	Reattachment of Left Upper Arm Skin, External Approach	PX	ICD-10-PCS
0HMDXZZ	Reattachment of Right Lower Arm Skin, External Approach	PX	ICD-10-PCS
0HMEXZZ	Reattachment of Left Lower Arm Skin, External Approach	PX	ICD-10-PCS
0HMFXZZ	Reattachment of Right Hand Skin, External Approach	PX	ICD-10-PCS
0HMGXZZ	Reattachment of Left Hand Skin, External Approach	PX	ICD-10-PCS
0HMHXZZ	Reattachment of Right Upper Leg Skin, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HMJXZZ	Reattachment of Left Upper Leg Skin, External Approach	PX	ICD-10-PCS
0HMKXZZ	Reattachment of Right Lower Leg Skin, External Approach	PX	ICD-10-PCS
0HMLXZZ	Reattachment of Left Lower Leg Skin, External Approach	PX	ICD-10-PCS
0HMMXZZ	Reattachment of Right Foot Skin, External Approach	PX	ICD-10-PCS
0HMNXZZ	Reattachment of Left Foot Skin, External Approach	PX	ICD-10-PCS
0HMTXZZ	Reattachment of Right Breast, External Approach	PX	ICD-10-PCS
0HMUXZZ	Reattachment of Left Breast, External Approach	PX	ICD-10-PCS
0HMVXZZ	Reattachment of Bilateral Breast, External Approach	PX	ICD-10-PCS
0HMWXZZ	Reattachment of Right Nipple, External Approach	PX	ICD-10-PCS
0HMXXZZ	Reattachment of Left Nipple, External Approach	PX	ICD-10-PCS
0HN0XZZ	Release Scalp Skin, External Approach	PX	ICD-10-PCS
0HN1XZZ	Release Face Skin, External Approach	PX	ICD-10-PCS
0HN2XZZ	Release Right Ear Skin, External Approach	PX	ICD-10-PCS
0HN3XZZ	Release Left Ear Skin, External Approach	PX	ICD-10-PCS
0HN4XZZ	Release Neck Skin, External Approach	PX	ICD-10-PCS
0HN5XZZ	Release Chest Skin, External Approach	PX	ICD-10-PCS
0HN6XZZ	Release Back Skin, External Approach	PX	ICD-10-PCS
0HN7XZZ	Release Abdomen Skin, External Approach	PX	ICD-10-PCS
0HN8XZZ	Release Buttock Skin, External Approach	PX	ICD-10-PCS
0HN9XZZ	Release Perineum Skin, External Approach	PX	ICD-10-PCS
0HNAXZZ	Release Inguinal Skin, External Approach	PX	ICD-10-PCS
0HNBXZZ	Release Right Upper Arm Skin, External Approach	PX	ICD-10-PCS
0HNCXZZ	Release Left Upper Arm Skin, External Approach	PX	ICD-10-PCS
0HNDXZZ	Release Right Lower Arm Skin, External Approach	PX	ICD-10-PCS
0HNEXZZ	Release Left Lower Arm Skin, External Approach	PX	ICD-10-PCS
0HNFXZZ	Release Right Hand Skin, External Approach	PX	ICD-10-PCS
0HNGXZZ	Release Left Hand Skin, External Approach	PX	ICD-10-PCS
0HNHXZZ	Release Right Upper Leg Skin, External Approach	PX	ICD-10-PCS
0HNJXZZ	Release Left Upper Leg Skin, External Approach	PX	ICD-10-PCS
0HNKXZZ	Release Right Lower Leg Skin, External Approach	PX	ICD-10-PCS
0HNLXZZ	Release Left Lower Leg Skin, External Approach	PX	ICD-10-PCS
0HNMXZZ	Release Right Foot Skin, External Approach	PX	ICD-10-PCS
0HNNXZZ	Release Left Foot Skin, External Approach	PX	ICD-10-PCS
0HNQXZZ	Release Finger Nail, External Approach	PX	ICD-10-PCS
0HNRXZZ	Release Toe Nail, External Approach	PX	ICD-10-PCS
0HNT0ZZ	Release Right Breast, Open Approach	PX	ICD-10-PCS
0HNT3ZZ	Release Right Breast, Percutaneous Approach	PX	ICD-10-PCS
0HNT7ZZ	Release Right Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HNT8ZZ	Release Right Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HNTXZZ	Release Right Breast, External Approach	PX	ICD-10-PCS
0HNU0ZZ	Release Left Breast, Open Approach	PX	ICD-10-PCS
0HNU3ZZ	Release Left Breast, Percutaneous Approach	PX	ICD-10-PCS
0HNU7ZZ	Release Left Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HNU8ZZ	Release Left Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HNUXZZ	Release Left Breast, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HNV0ZZ	Release Bilateral Breast, Open Approach	PX	ICD-10-PCS
0HNV3ZZ	Release Bilateral Breast, Percutaneous Approach	PX	ICD-10-PCS
0HNV7ZZ	Release Bilateral Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HNV8ZZ	Release Bilateral Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HNVXZZ	Release Bilateral Breast, External Approach	PX	ICD-10-PCS
0HNW0ZZ	Release Right Nipple, Open Approach	PX	ICD-10-PCS
0HNW3ZZ	Release Right Nipple, Percutaneous Approach	PX	ICD-10-PCS
0HNW7ZZ	Release Right Nipple, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HNW8ZZ	Release Right Nipple, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HNWXZZ	Release Right Nipple, External Approach	PX	ICD-10-PCS
0HNX0ZZ	Release Left Nipple, Open Approach	PX	ICD-10-PCS
0HNX3ZZ	Release Left Nipple, Percutaneous Approach	PX	ICD-10-PCS
0HNX7ZZ	Release Left Nipple, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HNX8ZZ	Release Left Nipple, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HNXXZZ	Release Left Nipple, External Approach	PX	ICD-10-PCS
0HPT01Z	Removal of Radioactive Element from Right Breast, Open Approach	PX	ICD-10-PCS
0HPT0JZ	Removal of Synthetic Substitute from Right Breast, Open Approach	PX	ICD-10-PCS
0HPT0NZ	Removal of Tissue Expander from Right Breast, Open Approach	PX	ICD-10-PCS
0HPT0YZ	Removal of Other Device from Right Breast, Open Approach	PX	ICD-10-PCS
0HPT3JZ	Removal of Synthetic Substitute from Right Breast, Percutaneous Approach	PX	ICD-10-PCS
0HPT3NZ	Removal of Tissue Expander from Right Breast, Percutaneous Approach	PX	ICD-10-PCS
0HPU01Z	Removal of Radioactive Element from Left Breast, Open Approach	PX	ICD-10-PCS
0HPU0JZ	Removal of Synthetic Substitute from Left Breast, Open Approach	PX	ICD-10-PCS
0HPU0NZ	Removal of Tissue Expander from Left Breast, Open Approach	PX	ICD-10-PCS
0HPU0YZ	Removal of Other Device from Left Breast, Open Approach	PX	ICD-10-PCS
0HPU3JZ	Removal of Synthetic Substitute from Left Breast, Percutaneous Approach	PX	ICD-10-PCS
0HPU3NZ	Removal of Tissue Expander from Left Breast, Percutaneous Approach	PX	ICD-10-PCS
0HQQXZZ	Repair Finger Nail, External Approach	PX	ICD-10-PCS
0HQRXZZ	Repair Toe Nail, External Approach	PX	ICD-10-PCS
0HQT0ZZ	Repair Right Breast, Open Approach	PX	ICD-10-PCS
0HQT3ZZ	Repair Right Breast, Percutaneous Approach	PX	ICD-10-PCS
0HQT7ZZ	Repair Right Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HQT8ZZ	Repair Right Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HQU0ZZ	Repair Left Breast, Open Approach	PX	ICD-10-PCS
0HQU3ZZ	Repair Left Breast, Percutaneous Approach	PX	ICD-10-PCS
0HQU7ZZ	Repair Left Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HQU8ZZ	Repair Left Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HQV0ZZ	Repair Bilateral Breast, Open Approach	PX	ICD-10-PCS
0HQV3ZZ	Repair Bilateral Breast, Percutaneous Approach	PX	ICD-10-PCS
0HQV7ZZ	Repair Bilateral Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HQV8ZZ	Repair Bilateral Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HQW0ZZ	Repair Right Nipple, Open Approach	PX	ICD-10-PCS
0HQW3ZZ	Repair Right Nipple, Percutaneous Approach	PX	ICD-10-PCS
0HQW7ZZ	Repair Right Nipple, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HQW8ZZ	Repair Right Nipple, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HQWXZZ	Repair Right Nipple, External Approach	PX	ICD-10-PCS
0HQX0ZZ	Repair Left Nipple, Open Approach	PX	ICD-10-PCS
0HQX3ZZ	Repair Left Nipple, Percutaneous Approach	PX	ICD-10-PCS
0HQX7ZZ	Repair Left Nipple, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HQX8ZZ	Repair Left Nipple, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HQXXZZ	Repair Left Nipple, External Approach	PX	ICD-10-PCS
0HQY0ZZ	Repair Supernumerary Breast, Open Approach	PX	ICD-10-PCS
0HQY3ZZ	Repair Supernumerary Breast, Percutaneous Approach	PX	ICD-10-PCS
0HQY7ZZ	Repair Supernumerary Breast, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HQY8ZZ	Repair Supernumerary Breast, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HR0X72	Replacement of Scalp Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HR0X73	Replacement of Scalp Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR0X74	Replacement of Scalp Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR0XJ3	Replacement of Scalp Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR0XJ4	Replacement of Scalp Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR0XJZ	Replacement of Scalp Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HR0XK3	Replacement of Scalp Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR0XK4	Replacement of Scalp Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR1X72	Replacement of Face Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HR1X73	Replacement of Face Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR1X74	Replacement of Face Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR1XJ3	Replacement of Face Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR1XJ4	Replacement of Face Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR1XJZ	Replacement of Face Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HR1XK3	Replacement of Face Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR1XK4	Replacement of Face Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR2X72	Replacement of Right Ear Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HR2X73	Replacement of Right Ear Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HR2X74	Replacement of Right Ear Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR2XJ3	Replacement of Right Ear Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR2XJ4	Replacement of Right Ear Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR2XJZ	Replacement of Right Ear Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HR2XK3	Replacement of Right Ear Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR2XK4	Replacement of Right Ear Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR3X72	Replacement of Left Ear Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HR3X73	Replacement of Left Ear Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR3X74	Replacement of Left Ear Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR3XJ3	Replacement of Left Ear Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR3XJ4	Replacement of Left Ear Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR3XJZ	Replacement of Left Ear Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HR3XK3	Replacement of Left Ear Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR3XK4	Replacement of Left Ear Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR4X72	Replacement of Neck Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HR4X73	Replacement of Neck Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR4X74	Replacement of Neck Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR4XJ3	Replacement of Neck Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR4XJ4	Replacement of Neck Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR4XJZ	Replacement of Neck Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HR4XK3	Replacement of Neck Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR4XK4	Replacement of Neck Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR5X72	Replacement of Chest Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HR5X73	Replacement of Chest Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HR5X74	Replacement of Chest Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR5XJ3	Replacement of Chest Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR5XJ4	Replacement of Chest Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR5XJZ	Replacement of Chest Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HR5XK3	Replacement of Chest Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR5XK4	Replacement of Chest Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR6X72	Replacement of Back Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HR6X73	Replacement of Back Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR6X74	Replacement of Back Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR6XJ3	Replacement of Back Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR6XJ4	Replacement of Back Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR6XJZ	Replacement of Back Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HR6XK3	Replacement of Back Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR6XK4	Replacement of Back Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR7X72	Replacement of Abdomen Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HR7X73	Replacement of Abdomen Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR7X74	Replacement of Abdomen Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR7XJ3	Replacement of Abdomen Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR7XJ4	Replacement of Abdomen Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR7XJZ	Replacement of Abdomen Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HR7XK3	Replacement of Abdomen Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR7XK4	Replacement of Abdomen Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR8X72	Replacement of Buttock Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HR8X73	Replacement of Buttock Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0HR8X74	Replacement of Buttock Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR8XJ3	Replacement of Buttock Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR8XJ4	Replacement of Buttock Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR8XJZ	Replacement of Buttock Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HR8XK3	Replacement of Buttock Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR8XK4	Replacement of Buttock Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR9X72	Replacement of Perineum Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HR9X73	Replacement of Perineum Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR9X74	Replacement of Perineum Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR9XJ3	Replacement of Perineum Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR9XJ4	Replacement of Perineum Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HR9XJZ	Replacement of Perineum Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HR9XK3	Replacement of Perineum Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HR9XK4	Replacement of Perineum Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRAX72	Replacement of Inguinal Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRAX73	Replacement of Inguinal Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRAX74	Replacement of Inguinal Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRAXJ3	Replacement of Inguinal Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRAXJ4	Replacement of Inguinal Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRAXJZ	Replacement of Inguinal Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRAXK3	Replacement of Inguinal Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRAXK4	Replacement of Inguinal Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRBX72	Replacement of Right Upper Arm Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRBX73	Replacement of Right Upper Arm Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0HRBX74	Replacement of Right Upper Arm Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRBXJ3	Replacement of Right Upper Arm Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRBXJ4	Replacement of Right Upper Arm Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRBXJZ	Replacement of Right Upper Arm Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRBXK3	Replacement of Right Upper Arm Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRBXK4	Replacement of Right Upper Arm Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRCX72	Replacement of Left Upper Arm Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRCX73	Replacement of Left Upper Arm Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRCX74	Replacement of Left Upper Arm Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRCXJ3	Replacement of Left Upper Arm Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRCXJ4	Replacement of Left Upper Arm Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRCXJZ	Replacement of Left Upper Arm Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRCXK3	Replacement of Left Upper Arm Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRCXK4	Replacement of Left Upper Arm Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRDX72	Replacement of Right Lower Arm Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRDX73	Replacement of Right Lower Arm Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRDX74	Replacement of Right Lower Arm Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRDXJ3	Replacement of Right Lower Arm Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRDXJ4	Replacement of Right Lower Arm Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRDXJZ	Replacement of Right Lower Arm Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRDXK3	Replacement of Right Lower Arm Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRDXK4	Replacement of Right Lower Arm Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HREX72	Replacement of Left Lower Arm Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HREX73	Replacement of Left Lower Arm Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HREX74	Replacement of Left Lower Arm Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HREXJ3	Replacement of Left Lower Arm Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HREXJ4	Replacement of Left Lower Arm Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HREXJZ	Replacement of Left Lower Arm Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HREXK3	Replacement of Left Lower Arm Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HREXK4	Replacement of Left Lower Arm Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRFX72	Replacement of Right Hand Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRFX73	Replacement of Right Hand Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRFX74	Replacement of Right Hand Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRFXJ3	Replacement of Right Hand Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRFXJ4	Replacement of Right Hand Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRFXJZ	Replacement of Right Hand Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRFXK3	Replacement of Right Hand Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRFXK4	Replacement of Right Hand Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRGX72	Replacement of Left Hand Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRGX73	Replacement of Left Hand Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRGX74	Replacement of Left Hand Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRGXJ3	Replacement of Left Hand Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRGXJ4	Replacement of Left Hand Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRGXJZ	Replacement of Left Hand Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRGXK3	Replacement of Left Hand Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HRGXK4	Replacement of Left Hand Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRHX72	Replacement of Right Upper Leg Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRHX73	Replacement of Right Upper Leg Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRHX74	Replacement of Right Upper Leg Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRHXJ3	Replacement of Right Upper Leg Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRHXJ4	Replacement of Right Upper Leg Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRHXJZ	Replacement of Right Upper Leg Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRHXK3	Replacement of Right Upper Leg Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRHXK4	Replacement of Right Upper Leg Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRJX72	Replacement of Left Upper Leg Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRJX73	Replacement of Left Upper Leg Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRJX74	Replacement of Left Upper Leg Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRJXJ3	Replacement of Left Upper Leg Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRJXJ4	Replacement of Left Upper Leg Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRJXJZ	Replacement of Left Upper Leg Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRJXK3	Replacement of Left Upper Leg Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRJXK4	Replacement of Left Upper Leg Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRKX72	Replacement of Right Lower Leg Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRKX73	Replacement of Right Lower Leg Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRKX74	Replacement of Right Lower Leg Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRKXJ3	Replacement of Right Lower Leg Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRKXJ4	Replacement of Right Lower Leg Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HRKXJZ	Replacement of Right Lower Leg Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRKXK3	Replacement of Right Lower Leg Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRKXK4	Replacement of Right Lower Leg Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRLX72	Replacement of Left Lower Leg Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRLX73	Replacement of Left Lower Leg Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRLX74	Replacement of Left Lower Leg Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRLXJ3	Replacement of Left Lower Leg Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRLXJ4	Replacement of Left Lower Leg Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRLXJZ	Replacement of Left Lower Leg Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRLXK3	Replacement of Left Lower Leg Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRLXK4	Replacement of Left Lower Leg Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRMX72	Replacement of Right Foot Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRMX73	Replacement of Right Foot Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRMX74	Replacement of Right Foot Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRMXJ3	Replacement of Right Foot Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRMXJ4	Replacement of Right Foot Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRMXJZ	Replacement of Right Foot Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRMXK3	Replacement of Right Foot Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRMXK4	Replacement of Right Foot Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRNX72	Replacement of Left Foot Skin with Autologous Tissue Substitute, Cell Suspension Technique, External Approach	PX	ICD-10-PCS
0HRNX73	Replacement of Left Foot Skin with Autologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRNX74	Replacement of Left Foot Skin with Autologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRNXJ3	Replacement of Left Foot Skin with Synthetic Substitute, Full Thickness, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HRNXJ4	Replacement of Left Foot Skin with Synthetic Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRNXJZ	Replacement of Left Foot Skin with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRNXK3	Replacement of Left Foot Skin with Nonautologous Tissue Substitute, Full Thickness, External Approach	PX	ICD-10-PCS
0HRNXK4	Replacement of Left Foot Skin with Nonautologous Tissue Substitute, Partial Thickness, External Approach	PX	ICD-10-PCS
0HRQX7Z	Replacement of Finger Nail with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRQXJZ	Replacement of Finger Nail with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRQXKZ	Replacement of Finger Nail with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRRX7Z	Replacement of Toe Nail with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRRXJZ	Replacement of Toe Nail with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRRXKZ	Replacement of Toe Nail with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRSXJZ	Replacement of Hair with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRSXKZ	Replacement of Hair with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRT075	Replacement of Right Breast using Latissimus Dorsi Myocutaneous Flap, Open Approach	PX	ICD-10-PCS
0HRT076	Replacement of Right Breast using Transverse Rectus Abdominis Myocutaneous Flap, Open Approach	PX	ICD-10-PCS
0HRT077	Replacement of Right Breast using Deep Inferior Epigastric Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0HRT078	Replacement of Right Breast using Superficial Inferior Epigastric Artery Flap, Open Approach	PX	ICD-10-PCS
0HRT079	Replacement of Right Breast using Gluteal Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0HRT07B	Replacement of Right Breast using Lumbar Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0HRT07Z	Replacement of Right Breast with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HRT0JZ	Replacement of Right Breast with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0HRT0KZ	Replacement of Right Breast with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HRT37Z	Replacement of Right Breast with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRT3JZ	Replacement of Right Breast with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRT3KZ	Replacement of Right Breast with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRTX7Z	Replacement of Right Breast with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRTXJZ	Replacement of Right Breast with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRTXKZ	Replacement of Right Breast with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HRU075	Replacement of Left Breast using Latissimus Dorsi Myocutaneous Flap, Open Approach	PX	ICD-10-PCS
0HRU076	Replacement of Left Breast using Transverse Rectus Abdominis Myocutaneous Flap, Open Approach	PX	ICD-10-PCS
0HRU077	Replacement of Left Breast using Deep Inferior Epigastric Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0HRU078	Replacement of Left Breast using Superficial Inferior Epigastric Artery Flap, Open Approach	PX	ICD-10-PCS
0HRU079	Replacement of Left Breast using Gluteal Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0HRU07B	Replacement of Left Breast using Lumbar Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0HRU07Z	Replacement of Left Breast with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HRU0JZ	Replacement of Left Breast with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0HRU0KZ	Replacement of Left Breast with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HRU37Z	Replacement of Left Breast with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRU3JZ	Replacement of Left Breast with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRU3KZ	Replacement of Left Breast with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRUX7Z	Replacement of Left Breast with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRUXJZ	Replacement of Left Breast with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRUXKZ	Replacement of Left Breast with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRV075	Replacement of Bilateral Breast using Latissimus Dorsi Myocutaneous Flap, Open Approach	PX	ICD-10-PCS
0HRV076	Replacement of Bilateral Breast using Transverse Rectus Abdominis Myocutaneous Flap, Open Approach	PX	ICD-10-PCS
0HRV077	Replacement of Bilateral Breast using Deep Inferior Epigastric Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0HRV078	Replacement of Bilateral Breast using Superficial Inferior Epigastric Artery Flap, Open Approach	PX	ICD-10-PCS
0HRV079	Replacement of Bilateral Breast using Gluteal Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0HRV07B	Replacement of Bilateral Breast using Lumbar Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0HRV07Z	Replacement of Bilateral Breast with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HRV0JZ	Replacement of Bilateral Breast with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0HRV0KZ	Replacement of Bilateral Breast with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HRV37Z	Replacement of Bilateral Breast with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRV3JZ	Replacement of Bilateral Breast with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HRV3KZ	Replacement of Bilateral Breast with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRVX7Z	Replacement of Bilateral Breast with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRVXJZ	Replacement of Bilateral Breast with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRVXKZ	Replacement of Bilateral Breast with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRW07Z	Replacement of Right Nipple with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HRW0JZ	Replacement of Right Nipple with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0HRW0KZ	Replacement of Right Nipple with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HRW37Z	Replacement of Right Nipple with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRW3JZ	Replacement of Right Nipple with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRW3KZ	Replacement of Right Nipple with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRWX7Z	Replacement of Right Nipple with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRWXJZ	Replacement of Right Nipple with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRWXKZ	Replacement of Right Nipple with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRX07Z	Replacement of Left Nipple with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HRX0JZ	Replacement of Left Nipple with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0HRX0KZ	Replacement of Left Nipple with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HRX37Z	Replacement of Left Nipple with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRX3JZ	Replacement of Left Nipple with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRX3KZ	Replacement of Left Nipple with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HRXX7Z	Replacement of Left Nipple with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HRXXJZ	Replacement of Left Nipple with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HRXXKZ	Replacement of Left Nipple with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HST0ZZ	Reposition Right Breast, Open Approach	PX	ICD-10-PCS
0HSU0ZZ	Reposition Left Breast, Open Approach	PX	ICD-10-PCS
0HSV0ZZ	Reposition Bilateral Breast, Open Approach	PX	ICD-10-PCS
0HSWXZZ	Reposition Right Nipple, External Approach	PX	ICD-10-PCS
0HSXXZZ	Reposition Left Nipple, External Approach	PX	ICD-10-PCS
0HTT0ZZ	Resection of Right Breast, Open Approach	PX	ICD-10-PCS
0HTU0ZZ	Resection of Left Breast, Open Approach	PX	ICD-10-PCS
0HTV0ZZ	Resection of Bilateral Breast, Open Approach	PX	ICD-10-PCS
0HTWXZZ	Resection of Right Nipple, External Approach	PX	ICD-10-PCS
0HTXXZZ	Resection of Left Nipple, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HTY0ZZ	Resection of Supernumerary Breast, Open Approach	PX	ICD-10-PCS
0HUT07Z	Supplement Right Breast with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HUT0JZ	Supplement Right Breast with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0HUT0KZ	Supplement Right Breast with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HUT37Z	Supplement Right Breast with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUT3KZ	Supplement Right Breast with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUT77Z	Supplement Right Breast with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUT7JZ	Supplement Right Breast with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUT7KZ	Supplement Right Breast with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUT87Z	Supplement Right Breast with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUT8JZ	Supplement Right Breast with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUT8KZ	Supplement Right Breast with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUTX7Z	Supplement Right Breast with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HUTXJZ	Supplement Right Breast with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HUTXKZ	Supplement Right Breast with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HUU07Z	Supplement Left Breast with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HUU0JZ	Supplement Left Breast with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0HUU0KZ	Supplement Left Breast with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HUU37Z	Supplement Left Breast with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUU3KZ	Supplement Left Breast with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUU77Z	Supplement Left Breast with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUU7JZ	Supplement Left Breast with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUU7KZ	Supplement Left Breast with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUU87Z	Supplement Left Breast with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUU8JZ	Supplement Left Breast with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUU8KZ	Supplement Left Breast with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUUX7Z	Supplement Left Breast with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0HUUXJZ	Supplement Left Breast with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HUUXKZ	Supplement Left Breast with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HUV07Z	Supplement Bilateral Breast with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HUV0JZ	Supplement Bilateral Breast with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0HUV0KZ	Supplement Bilateral Breast with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HUV37Z	Supplement Bilateral Breast with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUV3KZ	Supplement Bilateral Breast with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUV77Z	Supplement Bilateral Breast with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUV7JZ	Supplement Bilateral Breast with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUV7KZ	Supplement Bilateral Breast with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUV87Z	Supplement Bilateral Breast with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUV8JZ	Supplement Bilateral Breast with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUV8KZ	Supplement Bilateral Breast with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUVX7Z	Supplement Bilateral Breast with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HUVXJZ	Supplement Bilateral Breast with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HUVXKZ	Supplement Bilateral Breast with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HUW07Z	Supplement Right Nipple with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HUW0JZ	Supplement Right Nipple with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0HUW0KZ	Supplement Right Nipple with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HUW37Z	Supplement Right Nipple with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUW3JZ	Supplement Right Nipple with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUW3KZ	Supplement Right Nipple with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUW77Z	Supplement Right Nipple with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUW7JZ	Supplement Right Nipple with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUW7KZ	Supplement Right Nipple with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUW87Z	Supplement Right Nipple with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HUW8JZ	Supplement Right Nipple with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUW8KZ	Supplement Right Nipple with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUWX7Z	Supplement Right Nipple with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HUWXJZ	Supplement Right Nipple with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HUWXKZ	Supplement Right Nipple with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HUX07Z	Supplement Left Nipple with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HUX0JZ	Supplement Left Nipple with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0HUX0KZ	Supplement Left Nipple with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0HUX37Z	Supplement Left Nipple with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUX3JZ	Supplement Left Nipple with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUX3KZ	Supplement Left Nipple with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0HUX77Z	Supplement Left Nipple with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUX7JZ	Supplement Left Nipple with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUX7KZ	Supplement Left Nipple with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0HUX87Z	Supplement Left Nipple with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUX8JZ	Supplement Left Nipple with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUX8KZ	Supplement Left Nipple with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0HUXX7Z	Supplement Left Nipple with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HUXXJZ	Supplement Left Nipple with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0HUXXKZ	Supplement Left Nipple with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0HWT0JZ	Revision of Synthetic Substitute in Right Breast, Open Approach	PX	ICD-10-PCS
0HWT0YZ	Revision of Other Device in Right Breast, Open Approach	PX	ICD-10-PCS
0HWT3JZ	Revision of Synthetic Substitute in Right Breast, Percutaneous Approach	PX	ICD-10-PCS
0HWU0JZ	Revision of Synthetic Substitute in Left Breast, Open Approach	PX	ICD-10-PCS
0HWU0YZ	Revision of Other Device in Left Breast, Open Approach	PX	ICD-10-PCS
0HWU3JZ	Revision of Synthetic Substitute in Left Breast, Percutaneous Approach	PX	ICD-10-PCS
0HX0XZZ	Transfer Scalp Skin, External Approach	PX	ICD-10-PCS
0HX1XZZ	Transfer Face Skin, External Approach	PX	ICD-10-PCS
0HX2XZZ	Transfer Right Ear Skin, External Approach	PX	ICD-10-PCS
0HX3XZZ	Transfer Left Ear Skin, External Approach	PX	ICD-10-PCS
0HX4XZZ	Transfer Neck Skin, External Approach	PX	ICD-10-PCS
0HX5XZZ	Transfer Chest Skin, External Approach	PX	ICD-10-PCS
0HX6XZZ	Transfer Back Skin, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0HX7XZZ	Transfer Abdomen Skin, External Approach	PX	ICD-10-PCS
0HX8XZZ	Transfer Buttock Skin, External Approach	PX	ICD-10-PCS
0HX9XZZ	Transfer Perineum Skin, External Approach	PX	ICD-10-PCS
0HXAXZZ	Transfer Inguinal Skin, External Approach	PX	ICD-10-PCS
0HXBXZZ	Transfer Right Upper Arm Skin, External Approach	PX	ICD-10-PCS
0HXCXZZ	Transfer Left Upper Arm Skin, External Approach	PX	ICD-10-PCS
0HXDXZZ	Transfer Right Lower Arm Skin, External Approach	PX	ICD-10-PCS
0HXEXZZ	Transfer Left Lower Arm Skin, External Approach	PX	ICD-10-PCS
0HXFXZZ	Transfer Right Hand Skin, External Approach	PX	ICD-10-PCS
0HXGXZZ	Transfer Left Hand Skin, External Approach	PX	ICD-10-PCS
0HXHXZZ	Transfer Right Upper Leg Skin, External Approach	PX	ICD-10-PCS
0HXJXZZ	Transfer Left Upper Leg Skin, External Approach	PX	ICD-10-PCS
0HXKXZZ	Transfer Right Lower Leg Skin, External Approach	PX	ICD-10-PCS
0HXLXZZ	Transfer Left Lower Leg Skin, External Approach	PX	ICD-10-PCS
0HXMXZZ	Transfer Right Foot Skin, External Approach	PX	ICD-10-PCS
0HXNXZZ	Transfer Left Foot Skin, External Approach	PX	ICD-10-PCS
0J010ZZ	Alteration of Face Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J013ZZ	Alteration of Face Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J040ZZ	Alteration of Right Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J043ZZ	Alteration of Right Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J050ZZ	Alteration of Left Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J053ZZ	Alteration of Left Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J060ZZ	Alteration of Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J063ZZ	Alteration of Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J070ZZ	Alteration of Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J073ZZ	Alteration of Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J080ZZ	Alteration of Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J083ZZ	Alteration of Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J090ZZ	Alteration of Buttock Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J093ZZ	Alteration of Buttock Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J0D0ZZ	Alteration of Right Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J0D3ZZ	Alteration of Right Upper Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J0F0ZZ	Alteration of Left Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J0F3ZZ	Alteration of Left Upper Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J0G0ZZ	Alteration of Right Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J0G3ZZ	Alteration of Right Lower Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J0H0ZZ	Alteration of Left Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J0H3ZZ	Alteration of Left Lower Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J0L0ZZ	Alteration of Right Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0J0L3ZZ	Alteration of Right Upper Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J0M0ZZ	Alteration of Left Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J0M3ZZ	Alteration of Left Upper Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J0N0ZZ	Alteration of Right Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J0N3ZZ	Alteration of Right Lower Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J0P0ZZ	Alteration of Left Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J0P3ZZ	Alteration of Left Lower Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J800ZZ	Division of Scalp Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J803ZZ	Division of Scalp Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J810ZZ	Division of Face Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J813ZZ	Division of Face Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J840ZZ	Division of Right Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J843ZZ	Division of Right Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J850ZZ	Division of Left Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J853ZZ	Division of Left Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J860ZZ	Division of Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J863ZZ	Division of Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J870ZZ	Division of Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J873ZZ	Division of Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J880ZZ	Division of Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J883ZZ	Division of Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J890ZZ	Division of Buttock Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J893ZZ	Division of Buttock Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8B0ZZ	Division of Perineum Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8B3ZZ	Division of Perineum Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8C0ZZ	Division of Pelvic Region Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8C3ZZ	Division of Pelvic Region Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8D0ZZ	Division of Right Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8D3ZZ	Division of Right Upper Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8F0ZZ	Division of Left Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8F3ZZ	Division of Left Upper Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8G0ZZ	Division of Right Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8G3ZZ	Division of Right Lower Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8H0ZZ	Division of Left Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8H3ZZ	Division of Left Lower Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8J0ZZ	Division of Right Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0J8J3ZZ	Division of Right Hand Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8K0ZZ	Division of Left Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8K3ZZ	Division of Left Hand Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8L0ZZ	Division of Right Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8L3ZZ	Division of Right Upper Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8M0ZZ	Division of Left Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8M3ZZ	Division of Left Upper Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8N0ZZ	Division of Right Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8N3ZZ	Division of Right Lower Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8P0ZZ	Division of Left Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8P3ZZ	Division of Left Lower Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8Q0ZZ	Division of Right Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8Q3ZZ	Division of Right Foot Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8R0ZZ	Division of Left Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8R3ZZ	Division of Left Foot Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8S0ZZ	Division of Head and Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8S3ZZ	Division of Head and Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8T0ZZ	Division of Trunk Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8T3ZZ	Division of Trunk Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8V0ZZ	Division of Upper Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8V3ZZ	Division of Upper Extremity Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0J8W0ZZ	Division of Lower Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0J8W3ZZ	Division of Lower Extremity Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JB00ZZ	Excision of Scalp Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JB10ZZ	Excision of Face Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JB13ZZ	Excision of Face Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JB40ZZ	Excision of Right Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JB50ZZ	Excision of Left Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JB60ZZ	Excision of Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JB70ZZ	Excision of Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JB80ZZ	Excision of Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JB90ZZ	Excision of Buttock Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBB0ZZ	Excision of Perineum Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBC0ZZ	Excision of Pelvic Region Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBD0ZZ	Excision of Right Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBF0ZZ	Excision of Left Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBG0ZZ	Excision of Right Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBH0ZZ	Excision of Left Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JBJ0ZZ	Excision of Right Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBJ3ZZ	Excision of Right Hand Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JBK0ZZ	Excision of Left Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBK3ZZ	Excision of Left Hand Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JBL0ZZ	Excision of Right Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBM0ZZ	Excision of Left Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBN0ZZ	Excision of Right Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBP0ZZ	Excision of Left Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBQ0ZZ	Excision of Right Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JBR0ZZ	Excision of Left Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JC00ZZ	Extirpation of Matter from Scalp Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JC10ZZ	Extirpation of Matter from Face Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JC40ZZ	Extirpation of Matter from Right Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JC50ZZ	Extirpation of Matter from Left Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JC60ZZ	Extirpation of Matter from Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JC70ZZ	Extirpation of Matter from Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JC80ZZ	Extirpation of Matter from Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JC90ZZ	Extirpation of Matter from Buttock Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCB0ZZ	Extirpation of Matter from Perineum Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCC0ZZ	Extirpation of Matter from Pelvic Region Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCD0ZZ	Extirpation of Matter from Right Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCF0ZZ	Extirpation of Matter from Left Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCG0ZZ	Extirpation of Matter from Right Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCH0ZZ	Extirpation of Matter from Left Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCJ0ZZ	Extirpation of Matter from Right Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCK0ZZ	Extirpation of Matter from Left Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCL0ZZ	Extirpation of Matter from Right Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JCM0ZZ	Extirpation of Matter from Left Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCN0ZZ	Extirpation of Matter from Right Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCP0ZZ	Extirpation of Matter from Left Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCQ0ZZ	Extirpation of Matter from Right Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JCR0ZZ	Extirpation of Matter from Left Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH00NZ	Insertion of Tissue Expander into Scalp Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH03NZ	Insertion of Tissue Expander into Scalp Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH10NZ	Insertion of Tissue Expander into Face Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH13NZ	Insertion of Tissue Expander into Face Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH40NZ	Insertion of Tissue Expander into Right Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH43NZ	Insertion of Tissue Expander into Right Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH50NZ	Insertion of Tissue Expander into Left Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH53NZ	Insertion of Tissue Expander into Left Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH608Z	Insertion of Defibrillator Generator into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH609Z	Insertion of Cardiac Resynchronization Defibrillator Pulse Generator into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH60AZ	Insertion of Contractility Modulation Device into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH60BZ	Insertion of Single Array Stimulator Generator into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH60CZ	Insertion of Single Array Rechargeable Stimulator Generator into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH60DZ	Insertion of Multiple Array Stimulator Generator into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH60EZ	Insertion of Multiple Array Rechargeable Stimulator Generator into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH60FZ	Insertion of Subcutaneous Defibrillator Lead into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH60MZ	Insertion of Stimulator Generator into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JH60NZ	Insertion of Tissue Expander into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH60VZ	Insertion of Infusion Pump into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH60WZ	Insertion of Totally Implantable Vascular Access Device into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH60YZ	Insertion of Other Device into Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH638Z	Insertion of Defibrillator Generator into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH639Z	Insertion of Cardiac Resynchronization Defibrillator Pulse Generator into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH63AZ	Insertion of Contractility Modulation Device into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH63BZ	Insertion of Single Array Stimulator Generator into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH63CZ	Insertion of Single Array Rechargeable Stimulator Generator into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH63DZ	Insertion of Multiple Array Stimulator Generator into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH63EZ	Insertion of Multiple Array Rechargeable Stimulator Generator into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH63FZ	Insertion of Subcutaneous Defibrillator Lead into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH63MZ	Insertion of Stimulator Generator into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH63NZ	Insertion of Tissue Expander into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH63VZ	Insertion of Infusion Pump into Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH70BZ	Insertion of Single Array Stimulator Generator into Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH70CZ	Insertion of Single Array Rechargeable Stimulator Generator into Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH70DZ	Insertion of Multiple Array Stimulator Generator into Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH70EZ	Insertion of Multiple Array Rechargeable Stimulator Generator into Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH70MZ	Insertion of Stimulator Generator into Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH70NZ	Insertion of Tissue Expander into Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH70VZ	Insertion of Infusion Pump into Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JH70YZ	Insertion of Other Device into Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH73BZ	Insertion of Single Array Stimulator Generator into Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH73CZ	Insertion of Single Array Rechargeable Stimulator Generator into Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH73DZ	Insertion of Multiple Array Stimulator Generator into Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH73EZ	Insertion of Multiple Array Rechargeable Stimulator Generator into Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH73MZ	Insertion of Stimulator Generator into Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH73NZ	Insertion of Tissue Expander into Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH73VZ	Insertion of Infusion Pump into Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH808Z	Insertion of Defibrillator Generator into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH809Z	Insertion of Cardiac Resynchronization Defibrillator Pulse Generator into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH80AZ	Insertion of Contractility Modulation Device into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH80BZ	Insertion of Single Array Stimulator Generator into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH80CZ	Insertion of Single Array Rechargeable Stimulator Generator into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH80DZ	Insertion of Multiple Array Stimulator Generator into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH80EZ	Insertion of Multiple Array Rechargeable Stimulator Generator into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH80MZ	Insertion of Stimulator Generator into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH80NZ	Insertion of Tissue Expander into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH80VZ	Insertion of Infusion Pump into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH80WZ	Insertion of Totally Implantable Vascular Access Device into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH80YZ	Insertion of Other Device into Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH838Z	Insertion of Defibrillator Generator into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH839Z	Insertion of Cardiac Resynchronization Defibrillator Pulse Generator into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JH83AZ	Insertion of Contractility Modulation Device into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH83BZ	Insertion of Single Array Stimulator Generator into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH83CZ	Insertion of Single Array Rechargeable Stimulator Generator into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH83DZ	Insertion of Multiple Array Stimulator Generator into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH83EZ	Insertion of Multiple Array Rechargeable Stimulator Generator into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH83MZ	Insertion of Stimulator Generator into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH83NZ	Insertion of Tissue Expander into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH83VZ	Insertion of Infusion Pump into Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JH90NZ	Insertion of Tissue Expander into Buttock Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JH93NZ	Insertion of Tissue Expander into Buttock Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHB0NZ	Insertion of Tissue Expander into Perineum Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHB3NZ	Insertion of Tissue Expander into Perineum Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHC0NZ	Insertion of Tissue Expander into Pelvic Region Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHC3NZ	Insertion of Tissue Expander into Pelvic Region Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHD0NZ	Insertion of Tissue Expander into Right Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHD0VZ	Insertion of Infusion Pump into Right Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHD0WZ	Insertion of Totally Implantable Vascular Access Device into Right Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHD3NZ	Insertion of Tissue Expander into Right Upper Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHF0NZ	Insertion of Tissue Expander into Left Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHF0VZ	Insertion of Infusion Pump into Left Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHF0WZ	Insertion of Totally Implantable Vascular Access Device into Left Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHF3NZ	Insertion of Tissue Expander into Left Upper Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JHG0NZ	Insertion of Tissue Expander into Right Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHG0VZ	Insertion of Infusion Pump into Right Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHG0WZ	Insertion of Totally Implantable Vascular Access Device into Right Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHG3NZ	Insertion of Tissue Expander into Right Lower Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHH0NZ	Insertion of Tissue Expander into Left Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHH0VZ	Insertion of Infusion Pump into Left Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHH0WZ	Insertion of Totally Implantable Vascular Access Device into Left Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHH3NZ	Insertion of Tissue Expander into Left Lower Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHJ0NZ	Insertion of Tissue Expander into Right Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHJ3NZ	Insertion of Tissue Expander into Right Hand Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHK0NZ	Insertion of Tissue Expander into Left Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHK3NZ	Insertion of Tissue Expander into Left Hand Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHL0NZ	Insertion of Tissue Expander into Right Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHL0VZ	Insertion of Infusion Pump into Right Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHL0WZ	Insertion of Totally Implantable Vascular Access Device into Right Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHL3NZ	Insertion of Tissue Expander into Right Upper Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHM0NZ	Insertion of Tissue Expander into Left Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHM0VZ	Insertion of Infusion Pump into Left Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHM0WZ	Insertion of Totally Implantable Vascular Access Device into Left Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHM3NZ	Insertion of Tissue Expander into Left Upper Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHN0NZ	Insertion of Tissue Expander into Right Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHN0VZ	Insertion of Infusion Pump into Right Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JHN0WZ	Insertion of Totally Implantable Vascular Access Device into Right Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHN3NZ	Insertion of Tissue Expander into Right Lower Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHP0NZ	Insertion of Tissue Expander into Left Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHP0VZ	Insertion of Infusion Pump into Left Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHP0WZ	Insertion of Totally Implantable Vascular Access Device into Left Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHP3NZ	Insertion of Tissue Expander into Left Lower Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHQ0NZ	Insertion of Tissue Expander into Right Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHQ3NZ	Insertion of Tissue Expander into Right Foot Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHR0NZ	Insertion of Tissue Expander into Left Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHR3NZ	Insertion of Tissue Expander into Left Foot Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHS01Z	Insertion of Radioactive Element into Head and Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHS0YZ	Insertion of Other Device into Head and Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHT01Z	Insertion of Radioactive Element into Trunk Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHT0VZ	Insertion of Infusion Pump into Trunk Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHT0YZ	Insertion of Other Device into Trunk Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHT3VZ	Insertion of Infusion Pump into Trunk Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JHV01Z	Insertion of Radioactive Element into Upper Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHV0YZ	Insertion of Other Device into Upper Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHW01Z	Insertion of Radioactive Element into Lower Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JHW0YZ	Insertion of Other Device into Lower Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JN00ZZ	Release Scalp Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JN03ZZ	Release Scalp Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JN10ZZ	Release Face Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JN13ZZ	Release Face Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JN40ZZ	Release Right Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JN43ZZ	Release Right Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JN50ZZ	Release Left Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JN53ZZ	Release Left Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JN60ZZ	Release Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JN63ZZ	Release Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JN70ZZ	Release Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JN73ZZ	Release Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JN80ZZ	Release Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JN83ZZ	Release Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JN90ZZ	Release Buttock Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JN93ZZ	Release Buttock Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNB0ZZ	Release Perineum Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNB3ZZ	Release Perineum Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNC0ZZ	Release Pelvic Region Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNC3ZZ	Release Pelvic Region Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JND0ZZ	Release Right Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JND3ZZ	Release Right Upper Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNF0ZZ	Release Left Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNF3ZZ	Release Left Upper Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNG0ZZ	Release Right Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNG3ZZ	Release Right Lower Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNH0ZZ	Release Left Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNH3ZZ	Release Left Lower Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNJ0ZZ	Release Right Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNJ3ZZ	Release Right Hand Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNK0ZZ	Release Left Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNK3ZZ	Release Left Hand Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNL0ZZ	Release Right Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNL3ZZ	Release Right Upper Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNM0ZZ	Release Left Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNM3ZZ	Release Left Upper Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNN0ZZ	Release Right Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNN3ZZ	Release Right Lower Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNP0ZZ	Release Left Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNP3ZZ	Release Left Lower Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNQ0ZZ	Release Right Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNQ3ZZ	Release Right Foot Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JNR0ZZ	Release Left Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JNR3ZZ	Release Left Foot Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JPS01Z	Removal of Radioactive Element from Head and Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JPT01Z	Removal of Radioactive Element from Trunk Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JPT0FZ	Removal of Subcutaneous Defibrillator Lead from Trunk Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JPT0WZ	Removal of Totally Implantable Vascular Access Device from Trunk Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JPT3FZ	Removal of Subcutaneous Defibrillator Lead from Trunk Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JPV01Z	Removal of Radioactive Element from Upper Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JPV0WZ	Removal of Totally Implantable Vascular Access Device from Upper Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JPW01Z	Removal of Radioactive Element from Lower Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JPW0WZ	Removal of Totally Implantable Vascular Access Device from Lower Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JR007Z	Replacement of Scalp Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR00JZ	Replacement of Scalp Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JR00KZ	Replacement of Scalp Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR037Z	Replacement of Scalp Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR03JZ	Replacement of Scalp Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR03KZ	Replacement of Scalp Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR107Z	Replacement of Face Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR10JZ	Replacement of Face Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JR10KZ	Replacement of Face Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR137Z	Replacement of Face Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR13JZ	Replacement of Face Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR13KZ	Replacement of Face Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR407Z	Replacement of Right Neck Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JR40JZ	Replacement of Right Neck Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JR40KZ	Replacement of Right Neck Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR437Z	Replacement of Right Neck Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR43JZ	Replacement of Right Neck Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR43KZ	Replacement of Right Neck Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR507Z	Replacement of Left Neck Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR50JZ	Replacement of Left Neck Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JR50KZ	Replacement of Left Neck Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR537Z	Replacement of Left Neck Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR53JZ	Replacement of Left Neck Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR53KZ	Replacement of Left Neck Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR607Z	Replacement of Chest Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR60JZ	Replacement of Chest Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JR60KZ	Replacement of Chest Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR637Z	Replacement of Chest Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR63JZ	Replacement of Chest Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR63KZ	Replacement of Chest Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR707Z	Replacement of Back Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR70JZ	Replacement of Back Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JR70KZ	Replacement of Back Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR737Z	Replacement of Back Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR73JZ	Replacement of Back Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JR73KZ	Replacement of Back Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR807Z	Replacement of Abdomen Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR80JZ	Replacement of Abdomen Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JR80KZ	Replacement of Abdomen Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR837Z	Replacement of Abdomen Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR83JZ	Replacement of Abdomen Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR83KZ	Replacement of Abdomen Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR907Z	Replacement of Buttock Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR90JZ	Replacement of Buttock Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JR90KZ	Replacement of Buttock Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JR937Z	Replacement of Buttock Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR93JZ	Replacement of Buttock Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JR93KZ	Replacement of Buttock Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRB07Z	Replacement of Perineum Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRB0JZ	Replacement of Perineum Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRB0KZ	Replacement of Perineum Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRB37Z	Replacement of Perineum Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRB3JZ	Replacement of Perineum Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRB3KZ	Replacement of Perineum Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRC07Z	Replacement of Pelvic Region Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRC0JZ	Replacement of Pelvic Region Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRC0KZ	Replacement of Pelvic Region Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JRC37Z	Replacement of Pelvic Region Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRC3JZ	Replacement of Pelvic Region Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRC3KZ	Replacement of Pelvic Region Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRD07Z	Replacement of Right Upper Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRD0JZ	Replacement of Right Upper Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRD0KZ	Replacement of Right Upper Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRD37Z	Replacement of Right Upper Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRD3JZ	Replacement of Right Upper Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRD3KZ	Replacement of Right Upper Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRF07Z	Replacement of Left Upper Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRF0JZ	Replacement of Left Upper Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRF0KZ	Replacement of Left Upper Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRF37Z	Replacement of Left Upper Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRF3JZ	Replacement of Left Upper Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRF3KZ	Replacement of Left Upper Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRG07Z	Replacement of Right Lower Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRG0JZ	Replacement of Right Lower Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRG0KZ	Replacement of Right Lower Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRG37Z	Replacement of Right Lower Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRG3JZ	Replacement of Right Lower Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRG3KZ	Replacement of Right Lower Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRH07Z	Replacement of Left Lower Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JRH0JZ	Replacement of Left Lower Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRH0KZ	Replacement of Left Lower Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRH37Z	Replacement of Left Lower Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRH3JZ	Replacement of Left Lower Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRH3KZ	Replacement of Left Lower Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRJ07Z	Replacement of Right Hand Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRJ0JZ	Replacement of Right Hand Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRJ0KZ	Replacement of Right Hand Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRJ37Z	Replacement of Right Hand Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRJ3JZ	Replacement of Right Hand Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRJ3KZ	Replacement of Right Hand Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRK07Z	Replacement of Left Hand Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRK0JZ	Replacement of Left Hand Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRK0KZ	Replacement of Left Hand Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRK37Z	Replacement of Left Hand Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRK3JZ	Replacement of Left Hand Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRK3KZ	Replacement of Left Hand Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRL07Z	Replacement of Right Upper Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRL0JZ	Replacement of Right Upper Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRL0KZ	Replacement of Right Upper Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRL37Z	Replacement of Right Upper Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRL3JZ	Replacement of Right Upper Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JRL3KZ	Replacement of Right Upper Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRM07Z	Replacement of Left Upper Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRM0JZ	Replacement of Left Upper Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRM0KZ	Replacement of Left Upper Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRM37Z	Replacement of Left Upper Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRM3JZ	Replacement of Left Upper Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRM3KZ	Replacement of Left Upper Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRN07Z	Replacement of Right Lower Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRN0JZ	Replacement of Right Lower Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRN0KZ	Replacement of Right Lower Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRN37Z	Replacement of Right Lower Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRN3JZ	Replacement of Right Lower Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRN3KZ	Replacement of Right Lower Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRP07Z	Replacement of Left Lower Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRP0JZ	Replacement of Left Lower Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRP0KZ	Replacement of Left Lower Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRP37Z	Replacement of Left Lower Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRP3JZ	Replacement of Left Lower Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRP3KZ	Replacement of Left Lower Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRQ07Z	Replacement of Right Foot Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRQ0JZ	Replacement of Right Foot Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRQ0KZ	Replacement of Right Foot Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JRQ37Z	Replacement of Right Foot Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRQ3JZ	Replacement of Right Foot Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRQ3KZ	Replacement of Right Foot Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRR07Z	Replacement of Left Foot Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRR0JZ	Replacement of Left Foot Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JRR0KZ	Replacement of Left Foot Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JRR37Z	Replacement of Left Foot Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRR3JZ	Replacement of Left Foot Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JRR3KZ	Replacement of Left Foot Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU007Z	Supplement of Scalp Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU00JZ	Supplement of Scalp Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JU00KZ	Supplement of Scalp Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU037Z	Supplement of Scalp Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU03JZ	Supplement of Scalp Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU03KZ	Supplement of Scalp Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU107Z	Supplement of Face Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU10JZ	Supplement of Face Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JU10KZ	Supplement of Face Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU137Z	Supplement of Face Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU13JZ	Supplement of Face Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU13KZ	Supplement of Face Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU407Z	Supplement of Right Neck Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JU40JZ	Supplement of Right Neck Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JU40KZ	Supplement of Right Neck Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU437Z	Supplement of Right Neck Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU43JZ	Supplement of Right Neck Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU43KZ	Supplement of Right Neck Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU507Z	Supplement of Left Neck Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU50JZ	Supplement of Left Neck Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JU50KZ	Supplement of Left Neck Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU537Z	Supplement of Left Neck Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU53JZ	Supplement of Left Neck Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU53KZ	Supplement of Left Neck Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU607Z	Supplement of Chest Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU60JZ	Supplement of Chest Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JU60KZ	Supplement of Chest Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU637Z	Supplement of Chest Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU63JZ	Supplement of Chest Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU63KZ	Supplement of Chest Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU707Z	Supplement of Back Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU70JZ	Supplement of Back Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JU70KZ	Supplement of Back Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU737Z	Supplement of Back Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU73JZ	Supplement of Back Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JU73KZ	Supplement of Back Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU807Z	Supplement of Abdomen Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU80JZ	Supplement of Abdomen Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JU80KZ	Supplement of Abdomen Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU837Z	Supplement of Abdomen Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU83JZ	Supplement of Abdomen Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU83KZ	Supplement of Abdomen Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU907Z	Supplement of Buttock Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU90JZ	Supplement of Buttock Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JU90KZ	Supplement of Buttock Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JU937Z	Supplement of Buttock Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU93JZ	Supplement of Buttock Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JU93KZ	Supplement of Buttock Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUB07Z	Supplement of Perineum Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUB0JZ	Supplement of Perineum Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUB0KZ	Supplement of Perineum Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUB37Z	Supplement of Perineum Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUB3JZ	Supplement of Perineum Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUB3KZ	Supplement of Perineum Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUC07Z	Supplement of Pelvic Region Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUC0JZ	Supplement of Pelvic Region Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUC0KZ	Supplement of Pelvic Region Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JUC37Z	Supplement of Pelvic Region Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUC3JZ	Supplement of Pelvic Region Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUC3KZ	Supplement of Pelvic Region Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUD07Z	Supplement of Right Upper Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUD0JZ	Supplement of Right Upper Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUD0KZ	Supplement of Right Upper Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUD37Z	Supplement of Right Upper Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUD3JZ	Supplement of Right Upper Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUD3KZ	Supplement of Right Upper Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUF07Z	Supplement of Left Upper Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUF0JZ	Supplement of Left Upper Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUF0KZ	Supplement of Left Upper Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUF37Z	Supplement of Left Upper Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUF3JZ	Supplement of Left Upper Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUF3KZ	Supplement of Left Upper Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUG07Z	Supplement of Right Lower Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUG0JZ	Supplement of Right Lower Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUG0KZ	Supplement of Right Lower Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUG37Z	Supplement of Right Lower Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUG3JZ	Supplement of Right Lower Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUG3KZ	Supplement of Right Lower Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUH07Z	Supplement of Left Lower Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JUH0JZ	Supplement of Left Lower Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUH0KZ	Supplement of Left Lower Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUH37Z	Supplement of Left Lower Arm Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUH3JZ	Supplement of Left Lower Arm Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUH3KZ	Supplement of Left Lower Arm Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUJ07Z	Supplement of Right Hand Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUJ0JZ	Supplement of Right Hand Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUJ0KZ	Supplement of Right Hand Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUJ37Z	Supplement of Right Hand Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUJ3JZ	Supplement of Right Hand Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUJ3KZ	Supplement of Right Hand Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUK07Z	Supplement of Left Hand Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUK0JZ	Supplement of Left Hand Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUK0KZ	Supplement of Left Hand Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUK37Z	Supplement of Left Hand Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUK3JZ	Supplement of Left Hand Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUK3KZ	Supplement of Left Hand Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUL07Z	Supplement of Right Upper Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUL0JZ	Supplement of Right Upper Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUL0KZ	Supplement of Right Upper Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUL37Z	Supplement of Right Upper Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUL3JZ	Supplement of Right Upper Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JUL3KZ	Supplement of Right Upper Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUM07Z	Supplement of Left Upper Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUM0JZ	Supplement of Left Upper Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUM0KZ	Supplement of Left Upper Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUM37Z	Supplement of Left Upper Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUM3JZ	Supplement of Left Upper Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUM3KZ	Supplement of Left Upper Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUN07Z	Supplement of Right Lower Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUN0JZ	Supplement of Right Lower Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUN0KZ	Supplement of Right Lower Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUN37Z	Supplement of Right Lower Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUN3JZ	Supplement of Right Lower Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUN3KZ	Supplement of Right Lower Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUP07Z	Supplement of Left Lower Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUP0JZ	Supplement of Left Lower Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUP0KZ	Supplement of Left Lower Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUP37Z	Supplement of Left Lower Leg Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUP3JZ	Supplement of Left Lower Leg Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUP3KZ	Supplement of Left Lower Leg Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUQ07Z	Supplement of Right Foot Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUQ0JZ	Supplement of Right Foot Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUQ0KZ	Supplement of Right Foot Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JUQ37Z	Supplement of Right Foot Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUQ3JZ	Supplement of Right Foot Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUQ3KZ	Supplement of Right Foot Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUR07Z	Supplement of Left Foot Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUR0JZ	Supplement of Left Foot Subcutaneous Tissue and Fascia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0JUR0KZ	Supplement of Left Foot Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0JUR37Z	Supplement of Left Foot Subcutaneous Tissue and Fascia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUR3JZ	Supplement of Left Foot Subcutaneous Tissue and Fascia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JUR3KZ	Supplement of Left Foot Subcutaneous Tissue and Fascia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0JWS0YZ	Revision of Other Device in Head and Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JWT0FZ	Revision of Subcutaneous Defibrillator Lead in Trunk Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JWT0WZ	Revision of Totally Implantable Vascular Access Device in Trunk Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JWT0YZ	Revision of Other Device in Trunk Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JWT3FZ	Revision of Subcutaneous Defibrillator Lead in Trunk Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JWV0WZ	Revision of Totally Implantable Vascular Access Device in Upper Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JWV0YZ	Revision of Other Device in Upper Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JWW0WZ	Revision of Totally Implantable Vascular Access Device in Lower Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JWW0YZ	Revision of Other Device in Lower Extremity Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX00ZB	Transfer Scalp Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JX00ZC	Transfer Scalp Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX00ZZ	Transfer Scalp Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX03ZB	Transfer Scalp Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JX03ZC	Transfer Scalp Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JX03ZZ	Transfer Scalp Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX10ZB	Transfer Face Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JX10ZC	Transfer Face Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX10ZZ	Transfer Face Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX13ZB	Transfer Face Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JX13ZC	Transfer Face Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX13ZZ	Transfer Face Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX40ZB	Transfer Right Neck Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JX40ZC	Transfer Right Neck Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX40ZZ	Transfer Right Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX43ZB	Transfer Right Neck Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JX43ZC	Transfer Right Neck Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX43ZZ	Transfer Right Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX50ZB	Transfer Left Neck Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JX50ZC	Transfer Left Neck Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX50ZZ	Transfer Left Neck Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX53ZB	Transfer Left Neck Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JX53ZC	Transfer Left Neck Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX53ZZ	Transfer Left Neck Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX60ZB	Transfer Chest Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JX60ZC	Transfer Chest Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX60ZZ	Transfer Chest Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX63ZB	Transfer Chest Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JX63ZC	Transfer Chest Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX63ZZ	Transfer Chest Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX70ZB	Transfer Back Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JX70ZC	Transfer Back Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JX70ZZ	Transfer Back Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX73ZB	Transfer Back Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JX73ZC	Transfer Back Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX73ZZ	Transfer Back Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX80ZB	Transfer Abdomen Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JX80ZC	Transfer Abdomen Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX80ZZ	Transfer Abdomen Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX83ZB	Transfer Abdomen Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JX83ZC	Transfer Abdomen Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX83ZZ	Transfer Abdomen Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX90ZB	Transfer Buttock Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JX90ZC	Transfer Buttock Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX90ZZ	Transfer Buttock Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JX93ZB	Transfer Buttock Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JX93ZC	Transfer Buttock Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JX93ZZ	Transfer Buttock Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXB0ZB	Transfer Perineum Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXB0ZC	Transfer Perineum Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXB0ZZ	Transfer Perineum Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXB3ZB	Transfer Perineum Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXB3ZC	Transfer Perineum Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXB3ZZ	Transfer Perineum Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXC0ZB	Transfer Pelvic Region Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXC0ZC	Transfer Pelvic Region Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXC0ZZ	Transfer Pelvic Region Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXC3ZB	Transfer Pelvic Region Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXC3ZC	Transfer Pelvic Region Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JXC3ZZ	Transfer Pelvic Region Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXD0ZB	Transfer Right Upper Arm Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXD0ZC	Transfer Right Upper Arm Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXD0ZZ	Transfer Right Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXD3ZB	Transfer Right Upper Arm Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXD3ZC	Transfer Right Upper Arm Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXD3ZZ	Transfer Right Upper Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXF0ZB	Transfer Left Upper Arm Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXF0ZC	Transfer Left Upper Arm Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXF0ZZ	Transfer Left Upper Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXF3ZB	Transfer Left Upper Arm Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXF3ZC	Transfer Left Upper Arm Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXF3ZZ	Transfer Left Upper Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXG0ZB	Transfer Right Lower Arm Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXG0ZC	Transfer Right Lower Arm Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXG0ZZ	Transfer Right Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXG3ZB	Transfer Right Lower Arm Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXG3ZC	Transfer Right Lower Arm Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXG3ZZ	Transfer Right Lower Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXH0ZB	Transfer Left Lower Arm Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXH0ZC	Transfer Left Lower Arm Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXH0ZZ	Transfer Left Lower Arm Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXH3ZB	Transfer Left Lower Arm Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXH3ZC	Transfer Left Lower Arm Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXH3ZZ	Transfer Left Lower Arm Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JXJ0ZB	Transfer Right Hand Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXJ0ZC	Transfer Right Hand Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXJ0ZZ	Transfer Right Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXJ3ZB	Transfer Right Hand Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXJ3ZC	Transfer Right Hand Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXJ3ZZ	Transfer Right Hand Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXK0ZB	Transfer Left Hand Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXK0ZC	Transfer Left Hand Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXK0ZZ	Transfer Left Hand Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXK3ZB	Transfer Left Hand Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXK3ZC	Transfer Left Hand Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXK3ZZ	Transfer Left Hand Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXL0ZB	Transfer Right Upper Leg Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXL0ZC	Transfer Right Upper Leg Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXL0ZZ	Transfer Right Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXL3ZB	Transfer Right Upper Leg Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXL3ZC	Transfer Right Upper Leg Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXL3ZZ	Transfer Right Upper Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXM0ZB	Transfer Left Upper Leg Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXM0ZC	Transfer Left Upper Leg Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXM0ZZ	Transfer Left Upper Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXM3ZB	Transfer Left Upper Leg Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXM3ZC	Transfer Left Upper Leg Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXM3ZZ	Transfer Left Upper Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXN0ZB	Transfer Right Lower Leg Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0JXN0ZC	Transfer Right Lower Leg Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXN0ZZ	Transfer Right Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXN3ZB	Transfer Right Lower Leg Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXN3ZC	Transfer Right Lower Leg Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXN3ZZ	Transfer Right Lower Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXP0ZB	Transfer Left Lower Leg Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXP0ZC	Transfer Left Lower Leg Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXP0ZZ	Transfer Left Lower Leg Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXP3ZB	Transfer Left Lower Leg Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXP3ZC	Transfer Left Lower Leg Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXP3ZZ	Transfer Left Lower Leg Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXQ0ZB	Transfer Right Foot Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXQ0ZC	Transfer Right Foot Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXQ0ZZ	Transfer Right Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXQ3ZB	Transfer Right Foot Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXQ3ZC	Transfer Right Foot Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXQ3ZZ	Transfer Right Foot Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXR0ZB	Transfer Left Foot Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0JXR0ZC	Transfer Left Foot Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXR0ZZ	Transfer Left Foot Subcutaneous Tissue and Fascia, Open Approach	PX	ICD-10-PCS
0JXR3ZB	Transfer Left Foot Subcutaneous Tissue and Fascia with Skin and Subcutaneous Tissue, Percutaneous Approach	PX	ICD-10-PCS
0JXR3ZC	Transfer Left Foot Subcutaneous Tissue and Fascia with Skin, Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0JXR3ZZ	Transfer Left Foot Subcutaneous Tissue and Fascia, Percutaneous Approach	PX	ICD-10-PCS
0K500ZZ	Destruction of Head Muscle, Open Approach	PX	ICD-10-PCS
0K503ZZ	Destruction of Head Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K504ZZ	Destruction of Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K510ZZ	Destruction of Facial Muscle, Open Approach	PX	ICD-10-PCS
0K513ZZ	Destruction of Facial Muscle, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0K514ZZ	Destruction of Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K520ZZ	Destruction of Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0K523ZZ	Destruction of Right Neck Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K524ZZ	Destruction of Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K530ZZ	Destruction of Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0K533ZZ	Destruction of Left Neck Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K534ZZ	Destruction of Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K540ZZ	Destruction of Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0K543ZZ	Destruction of Tongue, Palate, Pharynx Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K544ZZ	Destruction of Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K550ZZ	Destruction of Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0K553ZZ	Destruction of Right Shoulder Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K554ZZ	Destruction of Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K560ZZ	Destruction of Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0K563ZZ	Destruction of Left Shoulder Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K564ZZ	Destruction of Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K570ZZ	Destruction of Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0K573ZZ	Destruction of Right Upper Arm Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K574ZZ	Destruction of Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K580ZZ	Destruction of Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0K583ZZ	Destruction of Left Upper Arm Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K584ZZ	Destruction of Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K590ZZ	Destruction of Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0K593ZZ	Destruction of Right Lower Arm and Wrist Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K594ZZ	Destruction of Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5B0ZZ	Destruction of Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0K5B3ZZ	Destruction of Left Lower Arm and Wrist Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5B4ZZ	Destruction of Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5C0ZZ	Destruction of Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0K5C3ZZ	Destruction of Right Hand Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5C4ZZ	Destruction of Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5D0ZZ	Destruction of Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0K5D3ZZ	Destruction of Left Hand Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5D4ZZ	Destruction of Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5F0ZZ	Destruction of Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0K5F3ZZ	Destruction of Right Trunk Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5F4ZZ	Destruction of Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5G0ZZ	Destruction of Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0K5G3ZZ	Destruction of Left Trunk Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5G4ZZ	Destruction of Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5H0ZZ	Destruction of Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0K5H3ZZ	Destruction of Right Thorax Muscle, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0K5H4ZZ	Destruction of Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5J0ZZ	Destruction of Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0K5J3ZZ	Destruction of Left Thorax Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5J4ZZ	Destruction of Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5K0ZZ	Destruction of Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0K5K3ZZ	Destruction of Right Abdomen Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5K4ZZ	Destruction of Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5L0ZZ	Destruction of Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0K5L3ZZ	Destruction of Left Abdomen Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5L4ZZ	Destruction of Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5M0ZZ	Destruction of Perineum Muscle, Open Approach	PX	ICD-10-PCS
0K5M3ZZ	Destruction of Perineum Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5M4ZZ	Destruction of Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5N0ZZ	Destruction of Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0K5N3ZZ	Destruction of Right Hip Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5N4ZZ	Destruction of Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5P0ZZ	Destruction of Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0K5P3ZZ	Destruction of Left Hip Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5P4ZZ	Destruction of Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5Q0ZZ	Destruction of Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0K5Q3ZZ	Destruction of Right Upper Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5Q4ZZ	Destruction of Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5R0ZZ	Destruction of Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0K5R3ZZ	Destruction of Left Upper Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5R4ZZ	Destruction of Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5S0ZZ	Destruction of Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0K5S3ZZ	Destruction of Right Lower Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5S4ZZ	Destruction of Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5T0ZZ	Destruction of Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0K5T3ZZ	Destruction of Left Lower Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5T4ZZ	Destruction of Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5V0ZZ	Destruction of Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0K5V3ZZ	Destruction of Right Foot Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5V4ZZ	Destruction of Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K5W0ZZ	Destruction of Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0K5W3ZZ	Destruction of Left Foot Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K5W4ZZ	Destruction of Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K800ZZ	Division of Head Muscle, Open Approach	PX	ICD-10-PCS
0K803ZZ	Division of Head Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K804ZZ	Division of Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K810ZZ	Division of Facial Muscle, Open Approach	PX	ICD-10-PCS
0K813ZZ	Division of Facial Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K814ZZ	Division of Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K820ZZ	Division of Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0K823ZZ	Division of Right Neck Muscle, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0K824ZZ	Division of Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K830ZZ	Division of Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0K833ZZ	Division of Left Neck Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K834ZZ	Division of Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K840ZZ	Division of Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0K843ZZ	Division of Tongue, Palate, Pharynx Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K844ZZ	Division of Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K847ZZ	Division of Tongue, Palate, Pharynx Muscle, Via Natural or Artificial Opening	PX	ICD-10-PCS
0K848ZZ	Division of Tongue, Palate, Pharynx Muscle, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0K850ZZ	Division of Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0K853ZZ	Division of Right Shoulder Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K854ZZ	Division of Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K860ZZ	Division of Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0K863ZZ	Division of Left Shoulder Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K864ZZ	Division of Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K870ZZ	Division of Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0K873ZZ	Division of Right Upper Arm Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K874ZZ	Division of Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K880ZZ	Division of Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0K883ZZ	Division of Left Upper Arm Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K884ZZ	Division of Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K890ZZ	Division of Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0K893ZZ	Division of Right Lower Arm and Wrist Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K894ZZ	Division of Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8B0ZZ	Division of Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0K8B3ZZ	Division of Left Lower Arm and Wrist Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8B4ZZ	Division of Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8C0ZZ	Division of Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0K8C3ZZ	Division of Right Hand Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8C4ZZ	Division of Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8D0ZZ	Division of Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0K8D3ZZ	Division of Left Hand Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8D4ZZ	Division of Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8F0ZZ	Division of Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0K8F3ZZ	Division of Right Trunk Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8F4ZZ	Division of Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8G0ZZ	Division of Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0K8G3ZZ	Division of Left Trunk Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8G4ZZ	Division of Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8H0ZZ	Division of Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0K8H3ZZ	Division of Right Thorax Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8H4ZZ	Division of Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0K8J0ZZ	Division of Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0K8J3ZZ	Division of Left Thorax Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8J4ZZ	Division of Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8K0ZZ	Division of Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0K8K3ZZ	Division of Right Abdomen Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8K4ZZ	Division of Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8L0ZZ	Division of Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0K8L3ZZ	Division of Left Abdomen Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8L4ZZ	Division of Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8M0ZZ	Division of Perineum Muscle, Open Approach	PX	ICD-10-PCS
0K8M3ZZ	Division of Perineum Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8M4ZZ	Division of Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8N0ZZ	Division of Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0K8N3ZZ	Division of Right Hip Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8N4ZZ	Division of Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8P0ZZ	Division of Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0K8P3ZZ	Division of Left Hip Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8P4ZZ	Division of Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8Q0ZZ	Division of Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0K8Q3ZZ	Division of Right Upper Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8Q4ZZ	Division of Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8R0ZZ	Division of Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0K8R3ZZ	Division of Left Upper Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8R4ZZ	Division of Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8S0ZZ	Division of Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0K8S3ZZ	Division of Right Lower Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8S4ZZ	Division of Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8T0ZZ	Division of Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0K8T3ZZ	Division of Left Lower Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8T4ZZ	Division of Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8V0ZZ	Division of Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0K8V3ZZ	Division of Right Foot Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8V4ZZ	Division of Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K8W0ZZ	Division of Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0K8W3ZZ	Division of Left Foot Muscle, Percutaneous Approach	PX	ICD-10-PCS
0K8W4ZZ	Division of Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9000Z	Drainage of Head Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K900ZZ	Drainage of Head Muscle, Open Approach	PX	ICD-10-PCS
0K9040Z	Drainage of Head Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K904ZZ	Drainage of Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9100Z	Drainage of Facial Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K910ZZ	Drainage of Facial Muscle, Open Approach	PX	ICD-10-PCS
0K9140Z	Drainage of Facial Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0K914ZZ	Drainage of Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9200Z	Drainage of Right Neck Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K920ZZ	Drainage of Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0K9240Z	Drainage of Right Neck Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K924ZZ	Drainage of Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9300Z	Drainage of Left Neck Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K930ZZ	Drainage of Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0K9340Z	Drainage of Left Neck Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K934ZZ	Drainage of Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9400Z	Drainage of Tongue, Palate, Pharynx Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K940ZZ	Drainage of Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0K9440Z	Drainage of Tongue, Palate, Pharynx Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K944ZZ	Drainage of Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9500Z	Drainage of Right Shoulder Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K950ZZ	Drainage of Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0K9540Z	Drainage of Right Shoulder Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K954ZZ	Drainage of Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9600Z	Drainage of Left Shoulder Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K960ZZ	Drainage of Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0K9640Z	Drainage of Left Shoulder Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K964ZZ	Drainage of Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9700Z	Drainage of Right Upper Arm Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K970ZZ	Drainage of Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0K9740Z	Drainage of Right Upper Arm Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K974ZZ	Drainage of Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9800Z	Drainage of Left Upper Arm Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K980ZZ	Drainage of Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0K9840Z	Drainage of Left Upper Arm Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K984ZZ	Drainage of Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9900Z	Drainage of Right Lower Arm and Wrist Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K990ZZ	Drainage of Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0K9940Z	Drainage of Right Lower Arm and Wrist Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K994ZZ	Drainage of Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0K9B00Z	Drainage of Left Lower Arm and Wrist Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9B0ZZ	Drainage of Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0K9B40Z	Drainage of Left Lower Arm and Wrist Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9B4ZZ	Drainage of Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9C00Z	Drainage of Right Hand Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9C0ZZ	Drainage of Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0K9C40Z	Drainage of Right Hand Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9C4ZZ	Drainage of Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9D00Z	Drainage of Left Hand Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9D0ZZ	Drainage of Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0K9D40Z	Drainage of Left Hand Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9D4ZZ	Drainage of Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9F00Z	Drainage of Right Trunk Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9F0ZZ	Drainage of Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0K9F40Z	Drainage of Right Trunk Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9F4ZZ	Drainage of Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9G00Z	Drainage of Left Trunk Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9G0ZZ	Drainage of Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0K9G40Z	Drainage of Left Trunk Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9G4ZZ	Drainage of Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9H00Z	Drainage of Right Thorax Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9H0ZZ	Drainage of Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0K9H40Z	Drainage of Right Thorax Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9H4ZZ	Drainage of Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9J00Z	Drainage of Left Thorax Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9J0ZZ	Drainage of Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0K9J40Z	Drainage of Left Thorax Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9J4ZZ	Drainage of Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9K00Z	Drainage of Right Abdomen Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9K0ZZ	Drainage of Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0K9K40Z	Drainage of Right Abdomen Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9K4ZZ	Drainage of Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9L00Z	Drainage of Left Abdomen Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9L0ZZ	Drainage of Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0K9L40Z	Drainage of Left Abdomen Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9L4ZZ	Drainage of Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9M00Z	Drainage of Perineum Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9M0ZZ	Drainage of Perineum Muscle, Open Approach	PX	ICD-10-PCS
0K9M40Z	Drainage of Perineum Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9M4ZZ	Drainage of Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9N00Z	Drainage of Right Hip Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9N0ZZ	Drainage of Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0K9N40Z	Drainage of Right Hip Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9N4ZZ	Drainage of Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9P00Z	Drainage of Left Hip Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9P0ZZ	Drainage of Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0K9P40Z	Drainage of Left Hip Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9P4ZZ	Drainage of Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9Q00Z	Drainage of Right Upper Leg Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9Q0ZZ	Drainage of Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0K9Q40Z	Drainage of Right Upper Leg Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9Q4ZZ	Drainage of Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9R00Z	Drainage of Left Upper Leg Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9R0ZZ	Drainage of Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0K9R40Z	Drainage of Left Upper Leg Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9R4ZZ	Drainage of Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9S00Z	Drainage of Right Lower Leg Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9S0ZZ	Drainage of Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0K9S40Z	Drainage of Right Lower Leg Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9S4ZZ	Drainage of Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9T00Z	Drainage of Left Lower Leg Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9T0ZZ	Drainage of Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0K9T40Z	Drainage of Left Lower Leg Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9T4ZZ	Drainage of Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9V00Z	Drainage of Right Foot Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9V0ZZ	Drainage of Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0K9V40Z	Drainage of Right Foot Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9V4ZZ	Drainage of Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9W00Z	Drainage of Left Foot Muscle with Drainage Device, Open Approach	PX	ICD-10-PCS
0K9W0ZZ	Drainage of Left Foot Muscle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0K9W40Z	Drainage of Left Foot Muscle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0K9W4ZZ	Drainage of Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KB00ZZ	Excision of Head Muscle, Open Approach	PX	ICD-10-PCS
0KB04ZZ	Excision of Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KB10ZZ	Excision of Facial Muscle, Open Approach	PX	ICD-10-PCS
0KB14ZZ	Excision of Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KB20ZZ	Excision of Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0KB24ZZ	Excision of Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KB30ZZ	Excision of Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0KB34ZZ	Excision of Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KB40ZZ	Excision of Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0KB44ZZ	Excision of Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KB50ZZ	Excision of Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KB54ZZ	Excision of Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KB60ZZ	Excision of Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KB64ZZ	Excision of Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KB70ZZ	Excision of Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KB74ZZ	Excision of Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KB80ZZ	Excision of Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KB84ZZ	Excision of Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KB90ZZ	Excision of Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KB94ZZ	Excision of Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBB0ZZ	Excision of Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KBB4ZZ	Excision of Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBC0ZZ	Excision of Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0KBC4ZZ	Excision of Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBD0ZZ	Excision of Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0KBD4ZZ	Excision of Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBF0ZZ	Excision of Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KBF4ZZ	Excision of Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBG0ZZ	Excision of Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KBG4ZZ	Excision of Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBH0ZZ	Excision of Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KBH4ZZ	Excision of Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBJ0ZZ	Excision of Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KBJ4ZZ	Excision of Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBK0ZZ	Excision of Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KBK4ZZ	Excision of Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBL0ZZ	Excision of Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KBL4ZZ	Excision of Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBM0ZZ	Excision of Perineum Muscle, Open Approach	PX	ICD-10-PCS
0KBM4ZZ	Excision of Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KBN0ZZ	Excision of Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0KBN4ZZ	Excision of Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBP0ZZ	Excision of Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0KBP4ZZ	Excision of Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBQ0ZZ	Excision of Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KBQ4ZZ	Excision of Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBR0ZZ	Excision of Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KBR4ZZ	Excision of Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBS0ZZ	Excision of Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KBS4ZZ	Excision of Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBT0ZZ	Excision of Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KBT4ZZ	Excision of Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBV0ZZ	Excision of Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0KBV4ZZ	Excision of Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KBW0ZZ	Excision of Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0KBW4ZZ	Excision of Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KC00ZZ	Extirpation of Matter from Head Muscle, Open Approach	PX	ICD-10-PCS
0KC03ZZ	Extirpation of Matter from Head Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KC04ZZ	Extirpation of Matter from Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KC10ZZ	Extirpation of Matter from Facial Muscle, Open Approach	PX	ICD-10-PCS
0KC13ZZ	Extirpation of Matter from Facial Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KC14ZZ	Extirpation of Matter from Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KC20ZZ	Extirpation of Matter from Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0KC23ZZ	Extirpation of Matter from Right Neck Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KC24ZZ	Extirpation of Matter from Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KC30ZZ	Extirpation of Matter from Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0KC33ZZ	Extirpation of Matter from Left Neck Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KC34ZZ	Extirpation of Matter from Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KC40ZZ	Extirpation of Matter from Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0KC43ZZ	Extirpation of Matter from Tongue, Palate, Pharynx Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KC44ZZ	Extirpation of Matter from Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KC50ZZ	Extirpation of Matter from Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KC53ZZ	Extirpation of Matter from Right Shoulder Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KC54ZZ	Extirpation of Matter from Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KC60ZZ	Extirpation of Matter from Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KC63ZZ	Extirpation of Matter from Left Shoulder Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KC64ZZ	Extirpation of Matter from Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KC70ZZ	Extirpation of Matter from Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KC73ZZ	Extirpation of Matter from Right Upper Arm Muscle, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KC74ZZ	Extirpation of Matter from Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KC80ZZ	Extirpation of Matter from Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KC83ZZ	Extirpation of Matter from Left Upper Arm Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KC84ZZ	Extirpation of Matter from Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KC90ZZ	Extirpation of Matter from Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KC93ZZ	Extirpation of Matter from Right Lower Arm and Wrist Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KC94ZZ	Extirpation of Matter from Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCB0ZZ	Extirpation of Matter from Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KCB3ZZ	Extirpation of Matter from Left Lower Arm and Wrist Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCB4ZZ	Extirpation of Matter from Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCC0ZZ	Extirpation of Matter from Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0KCC3ZZ	Extirpation of Matter from Right Hand Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCC4ZZ	Extirpation of Matter from Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCD0ZZ	Extirpation of Matter from Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0KCD3ZZ	Extirpation of Matter from Left Hand Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCD4ZZ	Extirpation of Matter from Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCF0ZZ	Extirpation of Matter from Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KCF3ZZ	Extirpation of Matter from Right Trunk Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCF4ZZ	Extirpation of Matter from Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCG0ZZ	Extirpation of Matter from Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KCG3ZZ	Extirpation of Matter from Left Trunk Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCG4ZZ	Extirpation of Matter from Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCH0ZZ	Extirpation of Matter from Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KCH3ZZ	Extirpation of Matter from Right Thorax Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCH4ZZ	Extirpation of Matter from Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCJ0ZZ	Extirpation of Matter from Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KCJ3ZZ	Extirpation of Matter from Left Thorax Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCJ4ZZ	Extirpation of Matter from Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCK0ZZ	Extirpation of Matter from Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KCK3ZZ	Extirpation of Matter from Right Abdomen Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCK4ZZ	Extirpation of Matter from Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCL0ZZ	Extirpation of Matter from Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KCL3ZZ	Extirpation of Matter from Left Abdomen Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCL4ZZ	Extirpation of Matter from Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCM0ZZ	Extirpation of Matter from Perineum Muscle, Open Approach	PX	ICD-10-PCS
0KCM3ZZ	Extirpation of Matter from Perineum Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCM4ZZ	Extirpation of Matter from Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCN0ZZ	Extirpation of Matter from Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0KCN3ZZ	Extirpation of Matter from Right Hip Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCN4ZZ	Extirpation of Matter from Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCP0ZZ	Extirpation of Matter from Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0KCP3ZZ	Extirpation of Matter from Left Hip Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCP4ZZ	Extirpation of Matter from Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCQ0ZZ	Extirpation of Matter from Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KCQ3ZZ	Extirpation of Matter from Right Upper Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCQ4ZZ	Extirpation of Matter from Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCR0ZZ	Extirpation of Matter from Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KCR3ZZ	Extirpation of Matter from Left Upper Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCR4ZZ	Extirpation of Matter from Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCS0ZZ	Extirpation of Matter from Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KCS3ZZ	Extirpation of Matter from Right Lower Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCS4ZZ	Extirpation of Matter from Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCT0ZZ	Extirpation of Matter from Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KCT3ZZ	Extirpation of Matter from Left Lower Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCT4ZZ	Extirpation of Matter from Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCV0ZZ	Extirpation of Matter from Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0KCV3ZZ	Extirpation of Matter from Right Foot Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCV4ZZ	Extirpation of Matter from Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KCW0ZZ	Extirpation of Matter from Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0KCW3ZZ	Extirpation of Matter from Left Foot Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KCW4ZZ	Extirpation of Matter from Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KD00ZZ	Extraction of Head Muscle, Open Approach	PX	ICD-10-PCS
0KD10ZZ	Extraction of Facial Muscle, Open Approach	PX	ICD-10-PCS
0KD20ZZ	Extraction of Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0KD30ZZ	Extraction of Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0KD40ZZ	Extraction of Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0KD50ZZ	Extraction of Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KD60ZZ	Extraction of Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KD70ZZ	Extraction of Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KD80ZZ	Extraction of Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KD90ZZ	Extraction of Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KDB0ZZ	Extraction of Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KDC0ZZ	Extraction of Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0KDD0ZZ	Extraction of Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0KDF0ZZ	Extraction of Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KDG0ZZ	Extraction of Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KDH0ZZ	Extraction of Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KDJ0ZZ	Extraction of Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KDK0ZZ	Extraction of Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KDL0ZZ	Extraction of Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KDM0ZZ	Extraction of Perineum Muscle, Open Approach	PX	ICD-10-PCS
0KDN0ZZ	Extraction of Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0KDP0ZZ	Extraction of Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0KDQ0ZZ	Extraction of Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KDR0ZZ	Extraction of Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KDS0ZZ	Extraction of Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KDT0ZZ	Extraction of Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KDV0ZZ	Extraction of Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0KDW0ZZ	Extraction of Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0KHX0MZ	Insertion of Stimulator Lead into Upper Muscle, Open Approach	PX	ICD-10-PCS
0KHX0YZ	Insertion of Other Device into Upper Muscle, Open Approach	PX	ICD-10-PCS
0KHX3MZ	Insertion of Stimulator Lead into Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KHX4MZ	Insertion of Stimulator Lead into Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KHX4YZ	Insertion of Other Device into Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KHY0MZ	Insertion of Stimulator Lead into Lower Muscle, Open Approach	PX	ICD-10-PCS
0KHY0YZ	Insertion of Other Device into Lower Muscle, Open Approach	PX	ICD-10-PCS
0KHY3MZ	Insertion of Stimulator Lead into Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KHY4MZ	Insertion of Stimulator Lead into Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KHY4YZ	Insertion of Other Device into Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KM00ZZ	Reattachment of Head Muscle, Open Approach	PX	ICD-10-PCS
0KM04ZZ	Reattachment of Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KM10ZZ	Reattachment of Facial Muscle, Open Approach	PX	ICD-10-PCS
0KM14ZZ	Reattachment of Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KM20ZZ	Reattachment of Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0KM24ZZ	Reattachment of Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KM30ZZ	Reattachment of Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0KM34ZZ	Reattachment of Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KM40ZZ	Reattachment of Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KM44ZZ	Reattachment of Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KM50ZZ	Reattachment of Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KM54ZZ	Reattachment of Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KM60ZZ	Reattachment of Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KM64ZZ	Reattachment of Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KM70ZZ	Reattachment of Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KM74ZZ	Reattachment of Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KM80ZZ	Reattachment of Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KM84ZZ	Reattachment of Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KM90ZZ	Reattachment of Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KM94ZZ	Reattachment of Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMB0ZZ	Reattachment of Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KMB4ZZ	Reattachment of Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMC0ZZ	Reattachment of Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0KMC4ZZ	Reattachment of Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMD0ZZ	Reattachment of Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0KMD4ZZ	Reattachment of Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMF0ZZ	Reattachment of Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KMF4ZZ	Reattachment of Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMG0ZZ	Reattachment of Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KMG4ZZ	Reattachment of Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMH0ZZ	Reattachment of Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KMH4ZZ	Reattachment of Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMJ0ZZ	Reattachment of Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KMJ4ZZ	Reattachment of Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMK0ZZ	Reattachment of Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KMK4ZZ	Reattachment of Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KML0ZZ	Reattachment of Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KML4ZZ	Reattachment of Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMM0ZZ	Reattachment of Perineum Muscle, Open Approach	PX	ICD-10-PCS
0KMM4ZZ	Reattachment of Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMN0ZZ	Reattachment of Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0KMN4ZZ	Reattachment of Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMP0ZZ	Reattachment of Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0KMP4ZZ	Reattachment of Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMQ0ZZ	Reattachment of Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KMQ4ZZ	Reattachment of Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMR0ZZ	Reattachment of Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KMR4ZZ	Reattachment of Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMS0ZZ	Reattachment of Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KMS4ZZ	Reattachment of Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMT0ZZ	Reattachment of Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KMT4ZZ	Reattachment of Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMV0ZZ	Reattachment of Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0KMV4ZZ	Reattachment of Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KMW0ZZ	Reattachment of Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0KMW4ZZ	Reattachment of Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KN00ZZ	Release Head Muscle, Open Approach	PX	ICD-10-PCS
0KN03ZZ	Release Head Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KN04ZZ	Release Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KN10ZZ	Release Facial Muscle, Open Approach	PX	ICD-10-PCS
0KN13ZZ	Release Facial Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KN14ZZ	Release Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KN20ZZ	Release Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0KN23ZZ	Release Right Neck Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KN24ZZ	Release Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KN30ZZ	Release Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0KN33ZZ	Release Left Neck Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KN34ZZ	Release Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KN40ZZ	Release Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0KN43ZZ	Release Tongue, Palate, Pharynx Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KN44ZZ	Release Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KN50ZZ	Release Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KN53ZZ	Release Right Shoulder Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KN54ZZ	Release Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KN60ZZ	Release Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KN63ZZ	Release Left Shoulder Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KN64ZZ	Release Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KN70ZZ	Release Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KN73ZZ	Release Right Upper Arm Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KN74ZZ	Release Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KN80ZZ	Release Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KN83ZZ	Release Left Upper Arm Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KN84ZZ	Release Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KN90ZZ	Release Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KN93ZZ	Release Right Lower Arm and Wrist Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KN94ZZ	Release Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNB0ZZ	Release Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KNB3ZZ	Release Left Lower Arm and Wrist Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNB4ZZ	Release Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNC0ZZ	Release Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0KNC3ZZ	Release Right Hand Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNC4ZZ	Release Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KND0ZZ	Release Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0KND3ZZ	Release Left Hand Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KND4ZZ	Release Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNF0ZZ	Release Right Trunk Muscle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KNF3ZZ	Release Right Trunk Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNF4ZZ	Release Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNG0ZZ	Release Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KNG3ZZ	Release Left Trunk Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNG4ZZ	Release Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNH0ZZ	Release Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KNH3ZZ	Release Right Thorax Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNH4ZZ	Release Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNJ0ZZ	Release Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KNJ3ZZ	Release Left Thorax Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNJ4ZZ	Release Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNK0ZZ	Release Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KNK3ZZ	Release Right Abdomen Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNK4ZZ	Release Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNL0ZZ	Release Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KNL3ZZ	Release Left Abdomen Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNL4ZZ	Release Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNM0ZZ	Release Perineum Muscle, Open Approach	PX	ICD-10-PCS
0KNM3ZZ	Release Perineum Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNM4ZZ	Release Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNN0ZZ	Release Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0KNN3ZZ	Release Right Hip Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNN4ZZ	Release Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNP0ZZ	Release Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0KNP3ZZ	Release Left Hip Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNP4ZZ	Release Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNQ0ZZ	Release Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KNQ3ZZ	Release Right Upper Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNQ4ZZ	Release Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNR0ZZ	Release Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KNR3ZZ	Release Left Upper Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNR4ZZ	Release Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNS0ZZ	Release Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KNS3ZZ	Release Right Lower Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNS4ZZ	Release Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNT0ZZ	Release Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KNT3ZZ	Release Left Lower Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNT4ZZ	Release Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNV0ZZ	Release Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0KNV3ZZ	Release Right Foot Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNV4ZZ	Release Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KNW0ZZ	Release Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0KNW3ZZ	Release Left Foot Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KNW4ZZ	Release Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPX00Z	Removal of Drainage Device from Upper Muscle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KPX07Z	Removal of Autologous Tissue Substitute from Upper Muscle, Open Approach	PX	ICD-10-PCS
0KPX0JZ	Removal of Synthetic Substitute from Upper Muscle, Open Approach	PX	ICD-10-PCS
0KPX0KZ	Removal of Nonautologous Tissue Substitute from Upper Muscle, Open Approach	PX	ICD-10-PCS
0KPX0MZ	Removal of Stimulator Lead from Upper Muscle, Open Approach	PX	ICD-10-PCS
0KPX0YZ	Removal of Other Device from Upper Muscle, Open Approach	PX	ICD-10-PCS
0KPX30Z	Removal of Drainage Device from Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KPX37Z	Removal of Autologous Tissue Substitute from Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KPX3JZ	Removal of Synthetic Substitute from Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KPX3KZ	Removal of Nonautologous Tissue Substitute from Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KPX3MZ	Removal of Stimulator Lead from Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KPX40Z	Removal of Drainage Device from Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPX47Z	Removal of Autologous Tissue Substitute from Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPX4JZ	Removal of Synthetic Substitute from Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPX4KZ	Removal of Nonautologous Tissue Substitute from Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPX4MZ	Removal of Stimulator Lead from Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPX4YZ	Removal of Other Device from Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPY00Z	Removal of Drainage Device from Lower Muscle, Open Approach	PX	ICD-10-PCS
0KPY07Z	Removal of Autologous Tissue Substitute from Lower Muscle, Open Approach	PX	ICD-10-PCS
0KPY0JZ	Removal of Synthetic Substitute from Lower Muscle, Open Approach	PX	ICD-10-PCS
0KPY0KZ	Removal of Nonautologous Tissue Substitute from Lower Muscle, Open Approach	PX	ICD-10-PCS
0KPY0MZ	Removal of Stimulator Lead from Lower Muscle, Open Approach	PX	ICD-10-PCS
0KPY0YZ	Removal of Other Device from Lower Muscle, Open Approach	PX	ICD-10-PCS
0KPY30Z	Removal of Drainage Device from Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KPY37Z	Removal of Autologous Tissue Substitute from Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KPY3JZ	Removal of Synthetic Substitute from Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KPY3KZ	Removal of Nonautologous Tissue Substitute from Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KPY3MZ	Removal of Stimulator Lead from Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KPY40Z	Removal of Drainage Device from Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPY47Z	Removal of Autologous Tissue Substitute from Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPY4JZ	Removal of Synthetic Substitute from Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KPY4KZ	Removal of Nonautologous Tissue Substitute from Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPY4MZ	Removal of Stimulator Lead from Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KPY4YZ	Removal of Other Device from Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQ00ZZ	Repair Head Muscle, Open Approach	PX	ICD-10-PCS
0KQ03ZZ	Repair Head Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQ04ZZ	Repair Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQ10ZZ	Repair Facial Muscle, Open Approach	PX	ICD-10-PCS
0KQ13ZZ	Repair Facial Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQ14ZZ	Repair Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQ20ZZ	Repair Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0KQ23ZZ	Repair Right Neck Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQ24ZZ	Repair Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQ30ZZ	Repair Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0KQ33ZZ	Repair Left Neck Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQ34ZZ	Repair Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQ40ZZ	Repair Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0KQ43ZZ	Repair Tongue, Palate, Pharynx Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQ44ZZ	Repair Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQ50ZZ	Repair Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KQ53ZZ	Repair Right Shoulder Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQ54ZZ	Repair Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQ60ZZ	Repair Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KQ63ZZ	Repair Left Shoulder Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQ64ZZ	Repair Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQ70ZZ	Repair Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KQ73ZZ	Repair Right Upper Arm Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQ74ZZ	Repair Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQ80ZZ	Repair Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KQ83ZZ	Repair Left Upper Arm Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQ84ZZ	Repair Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQ90ZZ	Repair Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KQ93ZZ	Repair Right Lower Arm and Wrist Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQ94ZZ	Repair Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQB0ZZ	Repair Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KQB3ZZ	Repair Left Lower Arm and Wrist Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQB4ZZ	Repair Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQC0ZZ	Repair Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0KQC3ZZ	Repair Right Hand Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQC4ZZ	Repair Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQD0ZZ	Repair Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0KQD3ZZ	Repair Left Hand Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQD4ZZ	Repair Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KQF0ZZ	Repair Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KQF3ZZ	Repair Right Trunk Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQF4ZZ	Repair Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQG0ZZ	Repair Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KQG3ZZ	Repair Left Trunk Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQG4ZZ	Repair Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQH0ZZ	Repair Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KQH3ZZ	Repair Right Thorax Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQH4ZZ	Repair Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQJ0ZZ	Repair Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KQJ3ZZ	Repair Left Thorax Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQJ4ZZ	Repair Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQK0ZZ	Repair Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KQK3ZZ	Repair Right Abdomen Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQK4ZZ	Repair Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQL0ZZ	Repair Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KQL3ZZ	Repair Left Abdomen Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQL4ZZ	Repair Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQM0ZZ	Repair Perineum Muscle, Open Approach	PX	ICD-10-PCS
0KQM3ZZ	Repair Perineum Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQM4ZZ	Repair Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQN0ZZ	Repair Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0KQN3ZZ	Repair Right Hip Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQN4ZZ	Repair Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQP0ZZ	Repair Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0KQP3ZZ	Repair Left Hip Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQP4ZZ	Repair Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQQ0ZZ	Repair Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KQQ3ZZ	Repair Right Upper Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQQ4ZZ	Repair Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQR0ZZ	Repair Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KQR3ZZ	Repair Left Upper Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQR4ZZ	Repair Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQS0ZZ	Repair Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KQS3ZZ	Repair Right Lower Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQS4ZZ	Repair Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQT0ZZ	Repair Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KQT3ZZ	Repair Left Lower Leg Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQT4ZZ	Repair Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQV0ZZ	Repair Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0KQV3ZZ	Repair Right Foot Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQV4ZZ	Repair Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KQW0ZZ	Repair Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0KQW3ZZ	Repair Left Foot Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KQW4ZZ	Repair Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KR007Z	Replacement of Head Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR00JZ	Replacement of Head Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KR00KZ	Replacement of Head Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR047Z	Replacement of Head Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR04JZ	Replacement of Head Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR04KZ	Replacement of Head Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR107Z	Replacement of Facial Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR10JZ	Replacement of Facial Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KR10KZ	Replacement of Facial Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR147Z	Replacement of Facial Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR14JZ	Replacement of Facial Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR14KZ	Replacement of Facial Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR207Z	Replacement of Right Neck Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR20JZ	Replacement of Right Neck Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KR20KZ	Replacement of Right Neck Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR247Z	Replacement of Right Neck Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR24JZ	Replacement of Right Neck Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR24KZ	Replacement of Right Neck Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR307Z	Replacement of Left Neck Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR30JZ	Replacement of Left Neck Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KR30KZ	Replacement of Left Neck Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR347Z	Replacement of Left Neck Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR34JZ	Replacement of Left Neck Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR34KZ	Replacement of Left Neck Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KR407Z	Replacement of Tongue, Palate, Pharynx Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR40JZ	Replacement of Tongue, Palate, Pharynx Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KR40KZ	Replacement of Tongue, Palate, Pharynx Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR447Z	Replacement of Tongue, Palate, Pharynx Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR44JZ	Replacement of Tongue, Palate, Pharynx Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR44KZ	Replacement of Tongue, Palate, Pharynx Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR507Z	Replacement of Right Shoulder Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR50JZ	Replacement of Right Shoulder Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KR50KZ	Replacement of Right Shoulder Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR547Z	Replacement of Right Shoulder Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR54JZ	Replacement of Right Shoulder Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR54KZ	Replacement of Right Shoulder Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR607Z	Replacement of Left Shoulder Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR60JZ	Replacement of Left Shoulder Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KR60KZ	Replacement of Left Shoulder Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR647Z	Replacement of Left Shoulder Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR64JZ	Replacement of Left Shoulder Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR64KZ	Replacement of Left Shoulder Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR707Z	Replacement of Right Upper Arm Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR70JZ	Replacement of Right Upper Arm Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KR70KZ	Replacement of Right Upper Arm Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR747Z	Replacement of Right Upper Arm Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR74JZ	Replacement of Right Upper Arm Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KR74KZ	Replacement of Right Upper Arm Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR807Z	Replacement of Left Upper Arm Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR80JZ	Replacement of Left Upper Arm Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KR80KZ	Replacement of Left Upper Arm Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR847Z	Replacement of Left Upper Arm Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR84JZ	Replacement of Left Upper Arm Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR84KZ	Replacement of Left Upper Arm Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR907Z	Replacement of Right Lower Arm and Wrist Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR90JZ	Replacement of Right Lower Arm and Wrist Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KR90KZ	Replacement of Right Lower Arm and Wrist Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KR947Z	Replacement of Right Lower Arm and Wrist Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR94JZ	Replacement of Right Lower Arm and Wrist Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KR94KZ	Replacement of Right Lower Arm and Wrist Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRB07Z	Replacement of Left Lower Arm and Wrist Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRB0JZ	Replacement of Left Lower Arm and Wrist Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRB0KZ	Replacement of Left Lower Arm and Wrist Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRB47Z	Replacement of Left Lower Arm and Wrist Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRB4JZ	Replacement of Left Lower Arm and Wrist Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRB4KZ	Replacement of Left Lower Arm and Wrist Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRC07Z	Replacement of Right Hand Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRC0JZ	Replacement of Right Hand Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRC0KZ	Replacement of Right Hand Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRC47Z	Replacement of Right Hand Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KRC4JZ	Replacement of Right Hand Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRC4KZ	Replacement of Right Hand Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRD07Z	Replacement of Left Hand Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRD0JZ	Replacement of Left Hand Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRD0KZ	Replacement of Left Hand Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRD47Z	Replacement of Left Hand Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRD4JZ	Replacement of Left Hand Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRD4KZ	Replacement of Left Hand Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRF07Z	Replacement of Right Trunk Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRF0JZ	Replacement of Right Trunk Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRF0KZ	Replacement of Right Trunk Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRF47Z	Replacement of Right Trunk Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRF4JZ	Replacement of Right Trunk Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRF4KZ	Replacement of Right Trunk Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRG07Z	Replacement of Left Trunk Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRG0JZ	Replacement of Left Trunk Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRG0KZ	Replacement of Left Trunk Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRG47Z	Replacement of Left Trunk Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRG4JZ	Replacement of Left Trunk Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRG4KZ	Replacement of Left Trunk Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRH07Z	Replacement of Right Thorax Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRH0JZ	Replacement of Right Thorax Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRH0KZ	Replacement of Right Thorax Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRH47Z	Replacement of Right Thorax Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KRH4JZ	Replacement of Right Thorax Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRH4KZ	Replacement of Right Thorax Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRJ07Z	Replacement of Left Thorax Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRJ0JZ	Replacement of Left Thorax Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRJ0KZ	Replacement of Left Thorax Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRJ47Z	Replacement of Left Thorax Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRJ4JZ	Replacement of Left Thorax Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRJ4KZ	Replacement of Left Thorax Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRK07Z	Replacement of Right Abdomen Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRK0JZ	Replacement of Right Abdomen Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRK0KZ	Replacement of Right Abdomen Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRK47Z	Replacement of Right Abdomen Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRK4JZ	Replacement of Right Abdomen Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRK4KZ	Replacement of Right Abdomen Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRL07Z	Replacement of Left Abdomen Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRL0JZ	Replacement of Left Abdomen Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRL0KZ	Replacement of Left Abdomen Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRL47Z	Replacement of Left Abdomen Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRL4JZ	Replacement of Left Abdomen Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRL4KZ	Replacement of Left Abdomen Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRM07Z	Replacement of Perineum Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRM0JZ	Replacement of Perineum Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRM0KZ	Replacement of Perineum Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KRM47Z	Replacement of Perineum Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRM4JZ	Replacement of Perineum Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRM4KZ	Replacement of Perineum Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRN07Z	Replacement of Right Hip Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRN0JZ	Replacement of Right Hip Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRN0KZ	Replacement of Right Hip Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRN47Z	Replacement of Right Hip Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRN4JZ	Replacement of Right Hip Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRN4KZ	Replacement of Right Hip Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRP07Z	Replacement of Left Hip Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRP0JZ	Replacement of Left Hip Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRP0KZ	Replacement of Left Hip Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRP47Z	Replacement of Left Hip Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRP4JZ	Replacement of Left Hip Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRP4KZ	Replacement of Left Hip Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRQ07Z	Replacement of Right Upper Leg Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRQ0JZ	Replacement of Right Upper Leg Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRQ0KZ	Replacement of Right Upper Leg Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRQ47Z	Replacement of Right Upper Leg Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRQ4JZ	Replacement of Right Upper Leg Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRQ4KZ	Replacement of Right Upper Leg Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRR07Z	Replacement of Left Upper Leg Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRR0JZ	Replacement of Left Upper Leg Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KRR0KZ	Replacement of Left Upper Leg Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRR47Z	Replacement of Left Upper Leg Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRR4JZ	Replacement of Left Upper Leg Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRR4KZ	Replacement of Left Upper Leg Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRS07Z	Replacement of Right Lower Leg Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRS0JZ	Replacement of Right Lower Leg Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRS0KZ	Replacement of Right Lower Leg Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRS47Z	Replacement of Right Lower Leg Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRS4JZ	Replacement of Right Lower Leg Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRS4KZ	Replacement of Right Lower Leg Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRT07Z	Replacement of Left Lower Leg Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRT0JZ	Replacement of Left Lower Leg Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRT0KZ	Replacement of Left Lower Leg Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRT47Z	Replacement of Left Lower Leg Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRT4JZ	Replacement of Left Lower Leg Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRT4KZ	Replacement of Left Lower Leg Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRV07Z	Replacement of Right Foot Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRV0JZ	Replacement of Right Foot Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRV0KZ	Replacement of Right Foot Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRV47Z	Replacement of Right Foot Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRV4JZ	Replacement of Right Foot Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRV4KZ	Replacement of Right Foot Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRW07Z	Replacement of Left Foot Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KRW0JZ	Replacement of Left Foot Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KRW0KZ	Replacement of Left Foot Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KRW47Z	Replacement of Left Foot Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRW4JZ	Replacement of Left Foot Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KRW4KZ	Replacement of Left Foot Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KS00ZZ	Reposition Head Muscle, Open Approach	PX	ICD-10-PCS
0KS04ZZ	Reposition Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KS10ZZ	Reposition Facial Muscle, Open Approach	PX	ICD-10-PCS
0KS14ZZ	Reposition Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KS20ZZ	Reposition Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0KS24ZZ	Reposition Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KS30ZZ	Reposition Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0KS34ZZ	Reposition Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KS40ZZ	Reposition Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0KS44ZZ	Reposition Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KS50ZZ	Reposition Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KS54ZZ	Reposition Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KS60ZZ	Reposition Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KS64ZZ	Reposition Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KS70ZZ	Reposition Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KS74ZZ	Reposition Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KS80ZZ	Reposition Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KS84ZZ	Reposition Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KS90ZZ	Reposition Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KS94ZZ	Reposition Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSB0ZZ	Reposition Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KSB4ZZ	Reposition Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSC0ZZ	Reposition Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0KSC4ZZ	Reposition Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSD0ZZ	Reposition Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0KSD4ZZ	Reposition Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSF0ZZ	Reposition Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KSF4ZZ	Reposition Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSG0ZZ	Reposition Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KSG4ZZ	Reposition Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSH0ZZ	Reposition Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KSH4ZZ	Reposition Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSJ0ZZ	Reposition Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KSJ4ZZ	Reposition Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KSK0ZZ	Reposition Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KSK4ZZ	Reposition Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSL0ZZ	Reposition Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KSL4ZZ	Reposition Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSM0ZZ	Reposition Perineum Muscle, Open Approach	PX	ICD-10-PCS
0KSM4ZZ	Reposition Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSN0ZZ	Reposition Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0KSN4ZZ	Reposition Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSP0ZZ	Reposition Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0KSP4ZZ	Reposition Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSQ0ZZ	Reposition Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KSQ4ZZ	Reposition Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSR0ZZ	Reposition Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KSR4ZZ	Reposition Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSS0ZZ	Reposition Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KSS4ZZ	Reposition Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KST0ZZ	Reposition Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KST4ZZ	Reposition Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSV0ZZ	Reposition Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0KSV4ZZ	Reposition Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KSW0ZZ	Reposition Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0KSW4ZZ	Reposition Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KT00ZZ	Resection of Head Muscle, Open Approach	PX	ICD-10-PCS
0KT04ZZ	Resection of Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KT10ZZ	Resection of Facial Muscle, Open Approach	PX	ICD-10-PCS
0KT14ZZ	Resection of Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KT20ZZ	Resection of Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0KT24ZZ	Resection of Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KT30ZZ	Resection of Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0KT34ZZ	Resection of Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KT40ZZ	Resection of Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0KT44ZZ	Resection of Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KT50ZZ	Resection of Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KT54ZZ	Resection of Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KT60ZZ	Resection of Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KT64ZZ	Resection of Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KT70ZZ	Resection of Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KT74ZZ	Resection of Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KT80ZZ	Resection of Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KT84ZZ	Resection of Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KT90ZZ	Resection of Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KT94ZZ	Resection of Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTB0ZZ	Resection of Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KTB4ZZ	Resection of Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTC0ZZ	Resection of Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0KTC4ZZ	Resection of Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTD0ZZ	Resection of Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0KTD4ZZ	Resection of Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTF0ZZ	Resection of Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KTF4ZZ	Resection of Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTG0ZZ	Resection of Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KTG4ZZ	Resection of Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTH0ZZ	Resection of Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KTH4ZZ	Resection of Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTJ0ZZ	Resection of Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KTJ4ZZ	Resection of Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTK0ZZ	Resection of Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KTK4ZZ	Resection of Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTL0ZZ	Resection of Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KTL4ZZ	Resection of Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTM0ZZ	Resection of Perineum Muscle, Open Approach	PX	ICD-10-PCS
0KTM4ZZ	Resection of Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTN0ZZ	Resection of Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0KTN4ZZ	Resection of Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTP0ZZ	Resection of Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0KTP4ZZ	Resection of Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTQ0ZZ	Resection of Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KTQ4ZZ	Resection of Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTR0ZZ	Resection of Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KTR4ZZ	Resection of Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTS0ZZ	Resection of Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KTS4ZZ	Resection of Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTT0ZZ	Resection of Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KTT4ZZ	Resection of Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTV0ZZ	Resection of Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0KTV4ZZ	Resection of Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KTW0ZZ	Resection of Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0KTW4ZZ	Resection of Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU007Z	Supplement Head Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU00JZ	Supplement Head Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KU00KZ	Supplement Head Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU047Z	Supplement Head Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU04JZ	Supplement Head Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KU04KZ	Supplement Head Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU107Z	Supplement Facial Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU10JZ	Supplement Facial Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KU10KZ	Supplement Facial Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU147Z	Supplement Facial Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU14JZ	Supplement Facial Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU14KZ	Supplement Facial Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU207Z	Supplement Right Neck Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU20JZ	Supplement Right Neck Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KU20KZ	Supplement Right Neck Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU247Z	Supplement Right Neck Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU24JZ	Supplement Right Neck Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU24KZ	Supplement Right Neck Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU307Z	Supplement Left Neck Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU30JZ	Supplement Left Neck Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KU30KZ	Supplement Left Neck Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU347Z	Supplement Left Neck Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU34JZ	Supplement Left Neck Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU34KZ	Supplement Left Neck Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU407Z	Supplement Tongue, Palate, Pharynx Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU40JZ	Supplement Tongue, Palate, Pharynx Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KU40KZ	Supplement Tongue, Palate, Pharynx Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU447Z	Supplement Tongue, Palate, Pharynx Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU44JZ	Supplement Tongue, Palate, Pharynx Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KU44KZ	Supplement Tongue, Palate, Pharynx Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU507Z	Supplement Right Shoulder Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU50JZ	Supplement Right Shoulder Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KU50KZ	Supplement Right Shoulder Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU547Z	Supplement Right Shoulder Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU54JZ	Supplement Right Shoulder Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU54KZ	Supplement Right Shoulder Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU607Z	Supplement Left Shoulder Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU60JZ	Supplement Left Shoulder Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KU60KZ	Supplement Left Shoulder Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU647Z	Supplement Left Shoulder Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU64JZ	Supplement Left Shoulder Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU64KZ	Supplement Left Shoulder Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU707Z	Supplement Right Upper Arm Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU70JZ	Supplement Right Upper Arm Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KU70KZ	Supplement Right Upper Arm Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU747Z	Supplement Right Upper Arm Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU74JZ	Supplement Right Upper Arm Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU74KZ	Supplement Right Upper Arm Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU807Z	Supplement Left Upper Arm Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU80JZ	Supplement Left Upper Arm Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KU80KZ	Supplement Left Upper Arm Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU847Z	Supplement Left Upper Arm Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU84JZ	Supplement Left Upper Arm Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KU84KZ	Supplement Left Upper Arm Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU907Z	Supplement Right Lower Arm and Wrist Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU90JZ	Supplement Right Lower Arm and Wrist Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KU90KZ	Supplement Right Lower Arm and Wrist Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KU947Z	Supplement Right Lower Arm and Wrist Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU94JZ	Supplement Right Lower Arm and Wrist Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KU94KZ	Supplement Right Lower Arm and Wrist Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUB07Z	Supplement Left Lower Arm and Wrist Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUB0JZ	Supplement Left Lower Arm and Wrist Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUB0KZ	Supplement Left Lower Arm and Wrist Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUB47Z	Supplement Left Lower Arm and Wrist Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUB4JZ	Supplement Left Lower Arm and Wrist Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUB4KZ	Supplement Left Lower Arm and Wrist Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUC07Z	Supplement Right Hand Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUC0JZ	Supplement Right Hand Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUC0KZ	Supplement Right Hand Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUC47Z	Supplement Right Hand Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUC4JZ	Supplement Right Hand Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUC4KZ	Supplement Right Hand Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUD07Z	Supplement Left Hand Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUD0JZ	Supplement Left Hand Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUD0KZ	Supplement Left Hand Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUD47Z	Supplement Left Hand Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KUD4JZ	Supplement Left Hand Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUD4KZ	Supplement Left Hand Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUF07Z	Supplement Right Trunk Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUF0JZ	Supplement Right Trunk Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUF0KZ	Supplement Right Trunk Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUF47Z	Supplement Right Trunk Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUF4JZ	Supplement Right Trunk Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUF4KZ	Supplement Right Trunk Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUG07Z	Supplement Left Trunk Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUG0JZ	Supplement Left Trunk Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUG0KZ	Supplement Left Trunk Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUG47Z	Supplement Left Trunk Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUG4JZ	Supplement Left Trunk Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUG4KZ	Supplement Left Trunk Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUH07Z	Supplement Right Thorax Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUH0JZ	Supplement Right Thorax Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUH0KZ	Supplement Right Thorax Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUH47Z	Supplement Right Thorax Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUH4JZ	Supplement Right Thorax Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUH4KZ	Supplement Right Thorax Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUJ07Z	Supplement Left Thorax Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUJ0JZ	Supplement Left Thorax Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUJ0KZ	Supplement Left Thorax Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUJ47Z	Supplement Left Thorax Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KUJ4JZ	Supplement Left Thorax Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUJ4KZ	Supplement Left Thorax Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUK07Z	Supplement Right Abdomen Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUK0JZ	Supplement Right Abdomen Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUK0KZ	Supplement Right Abdomen Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUK47Z	Supplement Right Abdomen Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUK4JZ	Supplement Right Abdomen Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUK4KZ	Supplement Right Abdomen Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUL07Z	Supplement Left Abdomen Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUL0JZ	Supplement Left Abdomen Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUL0KZ	Supplement Left Abdomen Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUL47Z	Supplement Left Abdomen Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUL4JZ	Supplement Left Abdomen Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUL4KZ	Supplement Left Abdomen Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUM07Z	Supplement Perineum Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUM0JZ	Supplement Perineum Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUM0KZ	Supplement Perineum Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUM47Z	Supplement Perineum Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUM4JZ	Supplement Perineum Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUM4KZ	Supplement Perineum Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUN07Z	Supplement Right Hip Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUN0JZ	Supplement Right Hip Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUN0KZ	Supplement Right Hip Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUN47Z	Supplement Right Hip Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0KUN4JZ	Supplement Right Hip Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUN4KZ	Supplement Right Hip Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUP07Z	Supplement Left Hip Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUP0JZ	Supplement Left Hip Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUP0KZ	Supplement Left Hip Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUP47Z	Supplement Left Hip Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUP4JZ	Supplement Left Hip Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUP4KZ	Supplement Left Hip Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUQ07Z	Supplement Right Upper Leg Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUQ0JZ	Supplement Right Upper Leg Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUQ0KZ	Supplement Right Upper Leg Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUQ47Z	Supplement Right Upper Leg Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUQ4JZ	Supplement Right Upper Leg Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUQ4KZ	Supplement Right Upper Leg Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUR07Z	Supplement Left Upper Leg Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUR0JZ	Supplement Left Upper Leg Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUR0KZ	Supplement Left Upper Leg Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUR47Z	Supplement Left Upper Leg Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUR4JZ	Supplement Left Upper Leg Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUR4KZ	Supplement Left Upper Leg Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUS07Z	Supplement Right Lower Leg Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUS0JZ	Supplement Right Lower Leg Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUS0KZ	Supplement Right Lower Leg Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUS47Z	Supplement Right Lower Leg Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUS4JZ	Supplement Right Lower Leg Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KUS4KZ	Supplement Right Lower Leg Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUT07Z	Supplement Left Lower Leg Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUT0JZ	Supplement Left Lower Leg Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUT0KZ	Supplement Left Lower Leg Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUT47Z	Supplement Left Lower Leg Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUT4JZ	Supplement Left Lower Leg Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUT4KZ	Supplement Left Lower Leg Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUV07Z	Supplement Right Foot Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUV0JZ	Supplement Right Foot Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUV0KZ	Supplement Right Foot Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUV47Z	Supplement Right Foot Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUV4JZ	Supplement Right Foot Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUV4KZ	Supplement Right Foot Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUW07Z	Supplement Left Foot Muscle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUW0JZ	Supplement Left Foot Muscle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0KUW0KZ	Supplement Left Foot Muscle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0KUW47Z	Supplement Left Foot Muscle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUW4JZ	Supplement Left Foot Muscle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KUW4KZ	Supplement Left Foot Muscle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWX00Z	Revision of Drainage Device in Upper Muscle, Open Approach	PX	ICD-10-PCS
0KWX07Z	Revision of Autologous Tissue Substitute in Upper Muscle, Open Approach	PX	ICD-10-PCS
0KWX0JZ	Revision of Synthetic Substitute in Upper Muscle, Open Approach	PX	ICD-10-PCS
0KWX0KZ	Revision of Nonautologous Tissue Substitute in Upper Muscle, Open Approach	PX	ICD-10-PCS
0KWX0MZ	Revision of Stimulator Lead in Upper Muscle, Open Approach	PX	ICD-10-PCS
0KWX0YZ	Revision of Other Device in Upper Muscle, Open Approach	PX	ICD-10-PCS
0KWX30Z	Revision of Drainage Device in Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KWX37Z	Revision of Autologous Tissue Substitute in Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KWX3JZ	Revision of Synthetic Substitute in Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KWX3KZ	Revision of Nonautologous Tissue Substitute in Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KWX3MZ	Revision of Stimulator Lead in Upper Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KWX40Z	Revision of Drainage Device in Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWX47Z	Revision of Autologous Tissue Substitute in Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWX4JZ	Revision of Synthetic Substitute in Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWX4KZ	Revision of Nonautologous Tissue Substitute in Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWX4MZ	Revision of Stimulator Lead in Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWX4YZ	Revision of Other Device in Upper Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWY00Z	Revision of Drainage Device in Lower Muscle, Open Approach	PX	ICD-10-PCS
0KWY07Z	Revision of Autologous Tissue Substitute in Lower Muscle, Open Approach	PX	ICD-10-PCS
0KWY0JZ	Revision of Synthetic Substitute in Lower Muscle, Open Approach	PX	ICD-10-PCS
0KWY0KZ	Revision of Nonautologous Tissue Substitute in Lower Muscle, Open Approach	PX	ICD-10-PCS
0KWY0MZ	Revision of Stimulator Lead in Lower Muscle, Open Approach	PX	ICD-10-PCS
0KWY0YZ	Revision of Other Device in Lower Muscle, Open Approach	PX	ICD-10-PCS
0KWY30Z	Revision of Drainage Device in Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KWY37Z	Revision of Autologous Tissue Substitute in Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KWY3JZ	Revision of Synthetic Substitute in Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KWY3KZ	Revision of Nonautologous Tissue Substitute in Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KWY3MZ	Revision of Stimulator Lead in Lower Muscle, Percutaneous Approach	PX	ICD-10-PCS
0KWY40Z	Revision of Drainage Device in Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWY47Z	Revision of Autologous Tissue Substitute in Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWY4JZ	Revision of Synthetic Substitute in Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWY4KZ	Revision of Nonautologous Tissue Substitute in Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWY4MZ	Revision of Stimulator Lead in Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KWY4YZ	Revision of Other Device in Lower Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX00Z0	Transfer Head Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KX00Z1	Transfer Head Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX00Z2	Transfer Head Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX00ZZ	Transfer Head Muscle, Open Approach	PX	ICD-10-PCS
0KX04Z0	Transfer Head Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX04Z1	Transfer Head Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KX04Z2	Transfer Head Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX04ZZ	Transfer Head Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX10Z0	Transfer Facial Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KX10Z1	Transfer Facial Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX10Z2	Transfer Facial Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX10ZZ	Transfer Facial Muscle, Open Approach	PX	ICD-10-PCS
0KX14Z0	Transfer Facial Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX14Z1	Transfer Facial Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX14Z2	Transfer Facial Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX14ZZ	Transfer Facial Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX20Z0	Transfer Right Neck Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KX20Z1	Transfer Right Neck Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX20Z2	Transfer Right Neck Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX20ZZ	Transfer Right Neck Muscle, Open Approach	PX	ICD-10-PCS
0KX24Z0	Transfer Right Neck Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX24Z1	Transfer Right Neck Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX24Z2	Transfer Right Neck Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX24ZZ	Transfer Right Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX30Z0	Transfer Left Neck Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KX30Z1	Transfer Left Neck Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX30Z2	Transfer Left Neck Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX30ZZ	Transfer Left Neck Muscle, Open Approach	PX	ICD-10-PCS
0KX34Z0	Transfer Left Neck Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX34Z1	Transfer Left Neck Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX34Z2	Transfer Left Neck Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX34ZZ	Transfer Left Neck Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX40Z0	Transfer Tongue, Palate, Pharynx Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KX40Z1	Transfer Tongue, Palate, Pharynx Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX40Z2	Transfer Tongue, Palate, Pharynx Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX40ZZ	Transfer Tongue, Palate, Pharynx Muscle, Open Approach	PX	ICD-10-PCS
0KX44Z0	Transfer Tongue, Palate, Pharynx Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX44Z1	Transfer Tongue, Palate, Pharynx Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX44Z2	Transfer Tongue, Palate, Pharynx Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KX44ZZ	Transfer Tongue, Palate, Pharynx Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX50Z0	Transfer Right Shoulder Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KX50Z1	Transfer Right Shoulder Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX50Z2	Transfer Right Shoulder Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX50ZZ	Transfer Right Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KX54Z0	Transfer Right Shoulder Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX54Z1	Transfer Right Shoulder Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX54Z2	Transfer Right Shoulder Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX54ZZ	Transfer Right Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX60Z0	Transfer Left Shoulder Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KX60Z1	Transfer Left Shoulder Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX60Z2	Transfer Left Shoulder Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX60ZZ	Transfer Left Shoulder Muscle, Open Approach	PX	ICD-10-PCS
0KX64Z0	Transfer Left Shoulder Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX64Z1	Transfer Left Shoulder Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX64Z2	Transfer Left Shoulder Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX64ZZ	Transfer Left Shoulder Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX70Z0	Transfer Right Upper Arm Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KX70Z1	Transfer Right Upper Arm Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX70Z2	Transfer Right Upper Arm Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX70ZZ	Transfer Right Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KX74Z0	Transfer Right Upper Arm Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX74Z1	Transfer Right Upper Arm Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX74Z2	Transfer Right Upper Arm Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX74ZZ	Transfer Right Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX80Z0	Transfer Left Upper Arm Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KX80Z1	Transfer Left Upper Arm Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX80Z2	Transfer Left Upper Arm Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX80ZZ	Transfer Left Upper Arm Muscle, Open Approach	PX	ICD-10-PCS
0KX84Z0	Transfer Left Upper Arm Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX84Z1	Transfer Left Upper Arm Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX84Z2	Transfer Left Upper Arm Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX84ZZ	Transfer Left Upper Arm Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KX90Z0	Transfer Right Lower Arm and Wrist Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KX90Z1	Transfer Right Lower Arm and Wrist Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX90Z2	Transfer Right Lower Arm and Wrist Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KX90ZZ	Transfer Right Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KX94Z0	Transfer Right Lower Arm and Wrist Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX94Z1	Transfer Right Lower Arm and Wrist Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX94Z2	Transfer Right Lower Arm and Wrist Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KX94ZZ	Transfer Right Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXB0Z0	Transfer Left Lower Arm and Wrist Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXB0Z1	Transfer Left Lower Arm and Wrist Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXB0Z2	Transfer Left Lower Arm and Wrist Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXB0ZZ	Transfer Left Lower Arm and Wrist Muscle, Open Approach	PX	ICD-10-PCS
0KXB4Z0	Transfer Left Lower Arm and Wrist Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXB4Z1	Transfer Left Lower Arm and Wrist Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXB4Z2	Transfer Left Lower Arm and Wrist Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXB4ZZ	Transfer Left Lower Arm and Wrist Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXC0Z0	Transfer Right Hand Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXC0Z1	Transfer Right Hand Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXC0Z2	Transfer Right Hand Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXC0ZZ	Transfer Right Hand Muscle, Open Approach	PX	ICD-10-PCS
0KXC4Z0	Transfer Right Hand Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXC4Z1	Transfer Right Hand Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXC4Z2	Transfer Right Hand Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXC4ZZ	Transfer Right Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXD0Z0	Transfer Left Hand Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXD0Z1	Transfer Left Hand Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXD0Z2	Transfer Left Hand Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXD0ZZ	Transfer Left Hand Muscle, Open Approach	PX	ICD-10-PCS
0KXD4Z0	Transfer Left Hand Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXD4Z1	Transfer Left Hand Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KXD4Z2	Transfer Left Hand Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXD4ZZ	Transfer Left Hand Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXF0Z0	Transfer Right Trunk Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXF0Z1	Transfer Right Trunk Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXF0Z2	Transfer Right Trunk Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXF0Z5	Transfer Right Trunk Muscle, Latissimus Dorsi Myocutaneous Flap, Open Approach	PX	ICD-10-PCS
0KXF0Z7	Transfer Right Trunk Muscle, Deep Inferior Epigastric Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0KXF0Z8	Transfer Right Trunk Muscle, Superficial Inferior Epigastric Artery Flap, Open Approach	PX	ICD-10-PCS
0KXF0Z9	Transfer Right Trunk Muscle, Gluteal Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0KXF0ZZ	Transfer Right Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KXF4Z0	Transfer Right Trunk Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXF4Z1	Transfer Right Trunk Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXF4Z2	Transfer Right Trunk Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXF4Z5	Transfer Right Trunk Muscle, Latissimus Dorsi Myocutaneous Flap, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXF4Z7	Transfer Right Trunk Muscle, Deep Inferior Epigastric Artery Perforator Flap, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXF4Z8	Transfer Right Trunk Muscle, Superficial Inferior Epigastric Artery Flap, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXF4Z9	Transfer Right Trunk Muscle, Gluteal Artery Perforator Flap, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXF4ZZ	Transfer Right Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXG0Z0	Transfer Left Trunk Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXG0Z1	Transfer Left Trunk Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXG0Z2	Transfer Left Trunk Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXG0Z5	Transfer Left Trunk Muscle, Latissimus Dorsi Myocutaneous Flap, Open Approach	PX	ICD-10-PCS
0KXG0Z7	Transfer Left Trunk Muscle, Deep Inferior Epigastric Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0KXG0Z8	Transfer Left Trunk Muscle, Superficial Inferior Epigastric Artery Flap, Open Approach	PX	ICD-10-PCS
0KXG0Z9	Transfer Left Trunk Muscle, Gluteal Artery Perforator Flap, Open Approach	PX	ICD-10-PCS
0KXG0ZZ	Transfer Left Trunk Muscle, Open Approach	PX	ICD-10-PCS
0KXG4Z0	Transfer Left Trunk Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXG4Z1	Transfer Left Trunk Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXG4Z2	Transfer Left Trunk Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0KXG4Z5	Transfer Left Trunk Muscle, Latissimus Dorsi Myocutaneous Flap, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXG4Z7	Transfer Left Trunk Muscle, Deep Inferior Epigastric Artery Perforator Flap, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXG4Z8	Transfer Left Trunk Muscle, Superficial Inferior Epigastric Artery Flap, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXG4Z9	Transfer Left Trunk Muscle, Gluteal Artery Perforator Flap, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXG4ZZ	Transfer Left Trunk Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXH0Z0	Transfer Right Thorax Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXH0Z1	Transfer Right Thorax Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXH0Z2	Transfer Right Thorax Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXH0ZZ	Transfer Right Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KXH4Z0	Transfer Right Thorax Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXH4Z1	Transfer Right Thorax Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXH4Z2	Transfer Right Thorax Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXH4ZZ	Transfer Right Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXJ0Z0	Transfer Left Thorax Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXJ0Z1	Transfer Left Thorax Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXJ0Z2	Transfer Left Thorax Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXJ0ZZ	Transfer Left Thorax Muscle, Open Approach	PX	ICD-10-PCS
0KXJ4Z0	Transfer Left Thorax Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXJ4Z1	Transfer Left Thorax Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXJ4Z2	Transfer Left Thorax Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXJ4ZZ	Transfer Left Thorax Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXK0Z0	Transfer Right Abdomen Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXK0Z1	Transfer Right Abdomen Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXK0Z2	Transfer Right Abdomen Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXK0Z6	Transfer Right Abdomen Muscle, Transverse Rectus Abdominis Myocutaneous Flap, Open Approach	PX	ICD-10-PCS
0KXK0ZZ	Transfer Right Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KXK4Z0	Transfer Right Abdomen Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXK4Z1	Transfer Right Abdomen Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXK4Z2	Transfer Right Abdomen Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXK4Z6	Transfer Right Abdomen Muscle, Transverse Rectus Abdominis Myocutaneous Flap, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXK4ZZ	Transfer Right Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KXL0Z0	Transfer Left Abdomen Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXL0Z1	Transfer Left Abdomen Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXL0Z2	Transfer Left Abdomen Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXL0Z6	Transfer Left Abdomen Muscle, Transverse Rectus Abdominis Myocutaneous Flap, Open Approach	PX	ICD-10-PCS
0KXL0ZZ	Transfer Left Abdomen Muscle, Open Approach	PX	ICD-10-PCS
0KXL4Z0	Transfer Left Abdomen Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXL4Z1	Transfer Left Abdomen Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXL4Z2	Transfer Left Abdomen Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXL4Z6	Transfer Left Abdomen Muscle, Transverse Rectus Abdominis Myocutaneous Flap, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXL4ZZ	Transfer Left Abdomen Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXM0Z0	Transfer Perineum Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXM0Z1	Transfer Perineum Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXM0Z2	Transfer Perineum Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXM0ZZ	Transfer Perineum Muscle, Open Approach	PX	ICD-10-PCS
0KXM4Z0	Transfer Perineum Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXM4Z1	Transfer Perineum Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXM4Z2	Transfer Perineum Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXM4ZZ	Transfer Perineum Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXN0Z0	Transfer Right Hip Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXN0Z1	Transfer Right Hip Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXN0Z2	Transfer Right Hip Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXN0ZZ	Transfer Right Hip Muscle, Open Approach	PX	ICD-10-PCS
0KXN4Z0	Transfer Right Hip Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXN4Z1	Transfer Right Hip Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXN4Z2	Transfer Right Hip Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXN4ZZ	Transfer Right Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXP0Z0	Transfer Left Hip Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXP0Z1	Transfer Left Hip Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXP0Z2	Transfer Left Hip Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXP0ZZ	Transfer Left Hip Muscle, Open Approach	PX	ICD-10-PCS
0KXP4Z0	Transfer Left Hip Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXP4Z1	Transfer Left Hip Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXP4Z2	Transfer Left Hip Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXP4ZZ	Transfer Left Hip Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KXQ0Z0	Transfer Right Upper Leg Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXQ0Z1	Transfer Right Upper Leg Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXQ0Z2	Transfer Right Upper Leg Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXQ0ZZ	Transfer Right Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KXQ4Z0	Transfer Right Upper Leg Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXQ4Z1	Transfer Right Upper Leg Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXQ4Z2	Transfer Right Upper Leg Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXQ4ZZ	Transfer Right Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXR0Z0	Transfer Left Upper Leg Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXR0Z1	Transfer Left Upper Leg Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXR0Z2	Transfer Left Upper Leg Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXR0ZZ	Transfer Left Upper Leg Muscle, Open Approach	PX	ICD-10-PCS
0KXR4Z0	Transfer Left Upper Leg Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXR4Z1	Transfer Left Upper Leg Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXR4Z2	Transfer Left Upper Leg Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXR4ZZ	Transfer Left Upper Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXS0Z0	Transfer Right Lower Leg Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXS0Z1	Transfer Right Lower Leg Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXS0Z2	Transfer Right Lower Leg Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXS0ZZ	Transfer Right Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KXS4Z0	Transfer Right Lower Leg Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXS4Z1	Transfer Right Lower Leg Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXS4Z2	Transfer Right Lower Leg Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXS4ZZ	Transfer Right Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXT0Z0	Transfer Left Lower Leg Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXT0Z1	Transfer Left Lower Leg Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXT0Z2	Transfer Left Lower Leg Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXT0ZZ	Transfer Left Lower Leg Muscle, Open Approach	PX	ICD-10-PCS
0KXT4Z0	Transfer Left Lower Leg Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXT4Z1	Transfer Left Lower Leg Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXT4Z2	Transfer Left Lower Leg Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXT4ZZ	Transfer Left Lower Leg Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXV0Z0	Transfer Right Foot Muscle with Skin, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0KXV0Z1	Transfer Right Foot Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXV0Z2	Transfer Right Foot Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXV0ZZ	Transfer Right Foot Muscle, Open Approach	PX	ICD-10-PCS
0KXV4Z0	Transfer Right Foot Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXV4Z1	Transfer Right Foot Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXV4Z2	Transfer Right Foot Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXV4ZZ	Transfer Right Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXW0Z0	Transfer Left Foot Muscle with Skin, Open Approach	PX	ICD-10-PCS
0KXW0Z1	Transfer Left Foot Muscle with Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXW0Z2	Transfer Left Foot Muscle with Skin and Subcutaneous Tissue, Open Approach	PX	ICD-10-PCS
0KXW0ZZ	Transfer Left Foot Muscle, Open Approach	PX	ICD-10-PCS
0KXW4Z0	Transfer Left Foot Muscle with Skin, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXW4Z1	Transfer Left Foot Muscle with Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXW4Z2	Transfer Left Foot Muscle with Skin and Subcutaneous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0KXW4ZZ	Transfer Left Foot Muscle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L500ZZ	Destruction of Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0L503ZZ	Destruction of Head and Neck Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L504ZZ	Destruction of Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L510ZZ	Destruction of Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0L513ZZ	Destruction of Right Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L514ZZ	Destruction of Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L520ZZ	Destruction of Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0L523ZZ	Destruction of Left Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L524ZZ	Destruction of Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L530ZZ	Destruction of Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0L533ZZ	Destruction of Right Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L534ZZ	Destruction of Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L540ZZ	Destruction of Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0L543ZZ	Destruction of Left Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L544ZZ	Destruction of Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L550ZZ	Destruction of Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0L553ZZ	Destruction of Right Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L554ZZ	Destruction of Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L560ZZ	Destruction of Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0L563ZZ	Destruction of Left Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L564ZZ	Destruction of Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L570ZZ	Destruction of Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0L573ZZ	Destruction of Right Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L574ZZ	Destruction of Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0L580ZZ	Destruction of Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0L583ZZ	Destruction of Left Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L584ZZ	Destruction of Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L590ZZ	Destruction of Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0L593ZZ	Destruction of Right Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L594ZZ	Destruction of Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5B0ZZ	Destruction of Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0L5B3ZZ	Destruction of Left Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5B4ZZ	Destruction of Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5C0ZZ	Destruction of Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0L5C3ZZ	Destruction of Right Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5C4ZZ	Destruction of Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5D0ZZ	Destruction of Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0L5D3ZZ	Destruction of Left Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5D4ZZ	Destruction of Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5F0ZZ	Destruction of Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0L5F3ZZ	Destruction of Right Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5F4ZZ	Destruction of Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5G0ZZ	Destruction of Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0L5G3ZZ	Destruction of Left Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5G4ZZ	Destruction of Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5H0ZZ	Destruction of Perineum Tendon, Open Approach	PX	ICD-10-PCS
0L5H3ZZ	Destruction of Perineum Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5H4ZZ	Destruction of Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5J0ZZ	Destruction of Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0L5J3ZZ	Destruction of Right Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5J4ZZ	Destruction of Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5K0ZZ	Destruction of Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0L5K3ZZ	Destruction of Left Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5K4ZZ	Destruction of Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5L0ZZ	Destruction of Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0L5L3ZZ	Destruction of Right Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5L4ZZ	Destruction of Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5M0ZZ	Destruction of Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0L5M3ZZ	Destruction of Left Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5M4ZZ	Destruction of Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5N0ZZ	Destruction of Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0L5N3ZZ	Destruction of Right Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5N4ZZ	Destruction of Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5P0ZZ	Destruction of Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0L5P3ZZ	Destruction of Left Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5P4ZZ	Destruction of Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5Q0ZZ	Destruction of Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0L5Q3ZZ	Destruction of Right Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5Q4ZZ	Destruction of Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0L5R0ZZ	Destruction of Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0L5R3ZZ	Destruction of Left Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5R4ZZ	Destruction of Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5S0ZZ	Destruction of Right Ankle Tendon, Open Approach	PX	ICD-10-PCS
0L5S3ZZ	Destruction of Right Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5S4ZZ	Destruction of Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5T0ZZ	Destruction of Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0L5T3ZZ	Destruction of Left Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5T4ZZ	Destruction of Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5V0ZZ	Destruction of Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0L5V3ZZ	Destruction of Right Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5V4ZZ	Destruction of Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L5W0ZZ	Destruction of Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0L5W3ZZ	Destruction of Left Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L5W4ZZ	Destruction of Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L800ZZ	Division of Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0L803ZZ	Division of Head and Neck Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L804ZZ	Division of Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L810ZZ	Division of Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0L813ZZ	Division of Right Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L814ZZ	Division of Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L820ZZ	Division of Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0L823ZZ	Division of Left Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L824ZZ	Division of Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L830ZZ	Division of Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0L833ZZ	Division of Right Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L834ZZ	Division of Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L840ZZ	Division of Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0L843ZZ	Division of Left Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L844ZZ	Division of Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L850ZZ	Division of Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0L853ZZ	Division of Right Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L854ZZ	Division of Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L860ZZ	Division of Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0L863ZZ	Division of Left Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L864ZZ	Division of Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L870ZZ	Division of Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0L873ZZ	Division of Right Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L874ZZ	Division of Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L880ZZ	Division of Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0L883ZZ	Division of Left Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L884ZZ	Division of Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L890ZZ	Division of Right Trunk Tendon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0L893ZZ	Division of Right Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L894ZZ	Division of Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8B0ZZ	Division of Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0L8B3ZZ	Division of Left Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8B4ZZ	Division of Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8C0ZZ	Division of Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0L8C3ZZ	Division of Right Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8C4ZZ	Division of Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8D0ZZ	Division of Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0L8D3ZZ	Division of Left Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8D4ZZ	Division of Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8F0ZZ	Division of Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0L8F3ZZ	Division of Right Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8F4ZZ	Division of Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8G0ZZ	Division of Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0L8G3ZZ	Division of Left Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8G4ZZ	Division of Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8H0ZZ	Division of Perineum Tendon, Open Approach	PX	ICD-10-PCS
0L8H3ZZ	Division of Perineum Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8H4ZZ	Division of Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8J0ZZ	Division of Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0L8J3ZZ	Division of Right Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8J4ZZ	Division of Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8K0ZZ	Division of Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0L8K3ZZ	Division of Left Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8K4ZZ	Division of Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8L0ZZ	Division of Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0L8L3ZZ	Division of Right Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8L4ZZ	Division of Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8M0ZZ	Division of Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0L8M3ZZ	Division of Left Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8M4ZZ	Division of Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8N0ZZ	Division of Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0L8N3ZZ	Division of Right Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8N4ZZ	Division of Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8P0ZZ	Division of Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0L8P3ZZ	Division of Left Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8P4ZZ	Division of Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8Q0ZZ	Division of Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0L8Q3ZZ	Division of Right Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8Q4ZZ	Division of Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8R0ZZ	Division of Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0L8R3ZZ	Division of Left Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8R4ZZ	Division of Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8S0ZZ	Division of Right Ankle Tendon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0L8S3ZZ	Division of Right Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8S4ZZ	Division of Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8T0ZZ	Division of Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0L8T3ZZ	Division of Left Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8T4ZZ	Division of Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8V0ZZ	Division of Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0L8V3ZZ	Division of Right Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8V4ZZ	Division of Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L8W0ZZ	Division of Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0L8W3ZZ	Division of Left Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0L8W4ZZ	Division of Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9000Z	Drainage of Head and Neck Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L900ZZ	Drainage of Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0L9040Z	Drainage of Head and Neck Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L904ZZ	Drainage of Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9100Z	Drainage of Right Shoulder Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L910ZZ	Drainage of Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0L9140Z	Drainage of Right Shoulder Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L914ZZ	Drainage of Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9200Z	Drainage of Left Shoulder Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L920ZZ	Drainage of Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0L9240Z	Drainage of Left Shoulder Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L924ZZ	Drainage of Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9300Z	Drainage of Right Upper Arm Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L930ZZ	Drainage of Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0L9340Z	Drainage of Right Upper Arm Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L934ZZ	Drainage of Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9400Z	Drainage of Left Upper Arm Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L940ZZ	Drainage of Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0L9440Z	Drainage of Left Upper Arm Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L944ZZ	Drainage of Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9500Z	Drainage of Right Lower Arm and Wrist Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L950ZZ	Drainage of Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0L9540Z	Drainage of Right Lower Arm and Wrist Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L954ZZ	Drainage of Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9600Z	Drainage of Left Lower Arm and Wrist Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0L960ZZ	Drainage of Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0L9640Z	Drainage of Left Lower Arm and Wrist Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L964ZZ	Drainage of Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9700Z	Drainage of Right Hand Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L970ZZ	Drainage of Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0L9740Z	Drainage of Right Hand Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L974ZZ	Drainage of Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9800Z	Drainage of Left Hand Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L980ZZ	Drainage of Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0L9840Z	Drainage of Left Hand Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L984ZZ	Drainage of Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9900Z	Drainage of Right Trunk Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L990ZZ	Drainage of Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0L9940Z	Drainage of Right Trunk Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L994ZZ	Drainage of Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9B00Z	Drainage of Left Trunk Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9B0ZZ	Drainage of Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0L9B40Z	Drainage of Left Trunk Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9B4ZZ	Drainage of Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9C00Z	Drainage of Right Thorax Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9C0ZZ	Drainage of Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0L9C40Z	Drainage of Right Thorax Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9C4ZZ	Drainage of Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9D00Z	Drainage of Left Thorax Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9D0ZZ	Drainage of Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0L9D40Z	Drainage of Left Thorax Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9D4ZZ	Drainage of Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9F00Z	Drainage of Right Abdomen Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9F0ZZ	Drainage of Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0L9F40Z	Drainage of Right Abdomen Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9F4ZZ	Drainage of Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9G00Z	Drainage of Left Abdomen Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9G0ZZ	Drainage of Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0L9G40Z	Drainage of Left Abdomen Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9G4ZZ	Drainage of Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0L9H00Z	Drainage of Perineum Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9H0ZZ	Drainage of Perineum Tendon, Open Approach	PX	ICD-10-PCS
0L9H40Z	Drainage of Perineum Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9H4ZZ	Drainage of Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9J00Z	Drainage of Right Hip Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9J0ZZ	Drainage of Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0L9J40Z	Drainage of Right Hip Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9J4ZZ	Drainage of Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9K00Z	Drainage of Left Hip Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9K0ZZ	Drainage of Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0L9K40Z	Drainage of Left Hip Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9K4ZZ	Drainage of Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9L00Z	Drainage of Right Upper Leg Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9L0ZZ	Drainage of Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0L9L40Z	Drainage of Right Upper Leg Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9L4ZZ	Drainage of Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9M00Z	Drainage of Left Upper Leg Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9M0ZZ	Drainage of Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0L9M40Z	Drainage of Left Upper Leg Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9M4ZZ	Drainage of Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9N00Z	Drainage of Right Lower Leg Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9N0ZZ	Drainage of Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0L9N40Z	Drainage of Right Lower Leg Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9N4ZZ	Drainage of Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9P00Z	Drainage of Left Lower Leg Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9P0ZZ	Drainage of Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0L9P40Z	Drainage of Left Lower Leg Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9P4ZZ	Drainage of Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9Q00Z	Drainage of Right Knee Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9Q0ZZ	Drainage of Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0L9Q40Z	Drainage of Right Knee Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9Q4ZZ	Drainage of Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9R00Z	Drainage of Left Knee Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9R0ZZ	Drainage of Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0L9R40Z	Drainage of Left Knee Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9R4ZZ	Drainage of Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0L9S00Z	Drainage of Right Ankle Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9S0ZZ	Drainage of Right Ankle Tendon, Open Approach	PX	ICD-10-PCS
0L9S40Z	Drainage of Right Ankle Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9S4ZZ	Drainage of Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9T00Z	Drainage of Left Ankle Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9T0ZZ	Drainage of Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0L9T40Z	Drainage of Left Ankle Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9T4ZZ	Drainage of Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9V00Z	Drainage of Right Foot Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9V0ZZ	Drainage of Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0L9V40Z	Drainage of Right Foot Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9V4ZZ	Drainage of Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9W00Z	Drainage of Left Foot Tendon with Drainage Device, Open Approach	PX	ICD-10-PCS
0L9W0ZZ	Drainage of Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0L9W40Z	Drainage of Left Foot Tendon with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0L9W4ZZ	Drainage of Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LB00ZZ	Excision of Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0LB03ZZ	Excision of Head and Neck Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LB04ZZ	Excision of Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LB10ZZ	Excision of Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LB13ZZ	Excision of Right Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LB14ZZ	Excision of Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LB20ZZ	Excision of Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LB23ZZ	Excision of Left Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LB24ZZ	Excision of Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LB30ZZ	Excision of Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LB33ZZ	Excision of Right Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LB34ZZ	Excision of Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LB40ZZ	Excision of Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LB43ZZ	Excision of Left Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LB44ZZ	Excision of Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LB50ZZ	Excision of Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LB53ZZ	Excision of Right Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LB54ZZ	Excision of Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LB60ZZ	Excision of Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LB63ZZ	Excision of Left Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LB64ZZ	Excision of Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LB70ZZ	Excision of Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0LB73ZZ	Excision of Right Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LB74ZZ	Excision of Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LB80ZZ	Excision of Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0LB83ZZ	Excision of Left Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LB84ZZ	Excision of Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LB90ZZ	Excision of Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LB93ZZ	Excision of Right Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LB94ZZ	Excision of Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBB0ZZ	Excision of Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LBB3ZZ	Excision of Left Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBB4ZZ	Excision of Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBC0ZZ	Excision of Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LBC3ZZ	Excision of Right Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBC4ZZ	Excision of Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBD0ZZ	Excision of Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LBD3ZZ	Excision of Left Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBD4ZZ	Excision of Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBF0ZZ	Excision of Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LBF3ZZ	Excision of Right Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBF4ZZ	Excision of Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBG0ZZ	Excision of Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LBG3ZZ	Excision of Left Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBG4ZZ	Excision of Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBH0ZZ	Excision of Perineum Tendon, Open Approach	PX	ICD-10-PCS
0LBH3ZZ	Excision of Perineum Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBH4ZZ	Excision of Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBJ0ZZ	Excision of Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0LBJ3ZZ	Excision of Right Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBJ4ZZ	Excision of Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBK0ZZ	Excision of Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0LBK3ZZ	Excision of Left Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBK4ZZ	Excision of Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBL0ZZ	Excision of Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LBL3ZZ	Excision of Right Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBL4ZZ	Excision of Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBM0ZZ	Excision of Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LBM3ZZ	Excision of Left Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBM4ZZ	Excision of Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBN0ZZ	Excision of Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LBN3ZZ	Excision of Right Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBN4ZZ	Excision of Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBP0ZZ	Excision of Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LBP3ZZ	Excision of Left Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBP4ZZ	Excision of Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBQ0ZZ	Excision of Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0LBQ3ZZ	Excision of Right Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LBQ4ZZ	Excision of Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBR0ZZ	Excision of Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0LBR3ZZ	Excision of Left Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBR4ZZ	Excision of Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBS0ZZ	Excision of Right Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LBS3ZZ	Excision of Right Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBS4ZZ	Excision of Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBT0ZZ	Excision of Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LBT3ZZ	Excision of Left Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBT4ZZ	Excision of Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBV0ZZ	Excision of Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0LBV3ZZ	Excision of Right Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBV4ZZ	Excision of Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LBW0ZZ	Excision of Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0LBW3ZZ	Excision of Left Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LBW4ZZ	Excision of Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LC00ZZ	Extirpation of Matter from Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0LC03ZZ	Extirpation of Matter from Head and Neck Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LC04ZZ	Extirpation of Matter from Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LC10ZZ	Extirpation of Matter from Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LC13ZZ	Extirpation of Matter from Right Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LC14ZZ	Extirpation of Matter from Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LC20ZZ	Extirpation of Matter from Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LC23ZZ	Extirpation of Matter from Left Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LC24ZZ	Extirpation of Matter from Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LC30ZZ	Extirpation of Matter from Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LC33ZZ	Extirpation of Matter from Right Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LC34ZZ	Extirpation of Matter from Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LC40ZZ	Extirpation of Matter from Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LC43ZZ	Extirpation of Matter from Left Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LC44ZZ	Extirpation of Matter from Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LC50ZZ	Extirpation of Matter from Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LC53ZZ	Extirpation of Matter from Right Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LC54ZZ	Extirpation of Matter from Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LC60ZZ	Extirpation of Matter from Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LC63ZZ	Extirpation of Matter from Left Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LC64ZZ	Extirpation of Matter from Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LC70ZZ	Extirpation of Matter from Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0LC73ZZ	Extirpation of Matter from Right Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LC74ZZ	Extirpation of Matter from Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LC80ZZ	Extirpation of Matter from Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0LC83ZZ	Extirpation of Matter from Left Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LC84ZZ	Extirpation of Matter from Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LC90ZZ	Extirpation of Matter from Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LC93ZZ	Extirpation of Matter from Right Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LC94ZZ	Extirpation of Matter from Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCB0ZZ	Extirpation of Matter from Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LCB3ZZ	Extirpation of Matter from Left Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCB4ZZ	Extirpation of Matter from Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCC0ZZ	Extirpation of Matter from Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LCC3ZZ	Extirpation of Matter from Right Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCC4ZZ	Extirpation of Matter from Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCD0ZZ	Extirpation of Matter from Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LCD3ZZ	Extirpation of Matter from Left Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCD4ZZ	Extirpation of Matter from Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCF0ZZ	Extirpation of Matter from Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LCF3ZZ	Extirpation of Matter from Right Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCF4ZZ	Extirpation of Matter from Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCG0ZZ	Extirpation of Matter from Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LCG3ZZ	Extirpation of Matter from Left Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCG4ZZ	Extirpation of Matter from Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCH0ZZ	Extirpation of Matter from Perineum Tendon, Open Approach	PX	ICD-10-PCS
0LCH3ZZ	Extirpation of Matter from Perineum Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCH4ZZ	Extirpation of Matter from Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCJ0ZZ	Extirpation of Matter from Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0LCJ3ZZ	Extirpation of Matter from Right Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCJ4ZZ	Extirpation of Matter from Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCK0ZZ	Extirpation of Matter from Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0LCK3ZZ	Extirpation of Matter from Left Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCK4ZZ	Extirpation of Matter from Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LCL0ZZ	Extirpation of Matter from Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LCL3ZZ	Extirpation of Matter from Right Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCL4ZZ	Extirpation of Matter from Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCM0ZZ	Extirpation of Matter from Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LCM3ZZ	Extirpation of Matter from Left Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCM4ZZ	Extirpation of Matter from Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCN0ZZ	Extirpation of Matter from Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LCN3ZZ	Extirpation of Matter from Right Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCN4ZZ	Extirpation of Matter from Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCP0ZZ	Extirpation of Matter from Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LCP3ZZ	Extirpation of Matter from Left Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCP4ZZ	Extirpation of Matter from Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCQ0ZZ	Extirpation of Matter from Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0LCQ3ZZ	Extirpation of Matter from Right Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCQ4ZZ	Extirpation of Matter from Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCR0ZZ	Extirpation of Matter from Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0LCR3ZZ	Extirpation of Matter from Left Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCR4ZZ	Extirpation of Matter from Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCS0ZZ	Extirpation of Matter from Right Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LCS3ZZ	Extirpation of Matter from Right Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCS4ZZ	Extirpation of Matter from Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCT0ZZ	Extirpation of Matter from Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LCT3ZZ	Extirpation of Matter from Left Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCT4ZZ	Extirpation of Matter from Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCV0ZZ	Extirpation of Matter from Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0LCV3ZZ	Extirpation of Matter from Right Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCV4ZZ	Extirpation of Matter from Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LCW0ZZ	Extirpation of Matter from Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0LCW3ZZ	Extirpation of Matter from Left Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LCW4ZZ	Extirpation of Matter from Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LD00ZZ	Extraction of Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0LD10ZZ	Extraction of Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LD20ZZ	Extraction of Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LD30ZZ	Extraction of Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LD40ZZ	Extraction of Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LD50ZZ	Extraction of Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LD60ZZ	Extraction of Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LD70ZZ	Extraction of Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0LD80ZZ	Extraction of Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0LD90ZZ	Extraction of Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LDB0ZZ	Extraction of Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LDC0ZZ	Extraction of Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LDD0ZZ	Extraction of Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LDF0ZZ	Extraction of Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LDG0ZZ	Extraction of Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LDH0ZZ	Extraction of Perineum Tendon, Open Approach	PX	ICD-10-PCS
0LDJ0ZZ	Extraction of Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0LDK0ZZ	Extraction of Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0LDL0ZZ	Extraction of Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LDM0ZZ	Extraction of Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LDN0ZZ	Extraction of Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LDP0ZZ	Extraction of Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LDQ0ZZ	Extraction of Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0LDR0ZZ	Extraction of Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0LDS0ZZ	Extraction of Right Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LDT0ZZ	Extraction of Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LDV0ZZ	Extraction of Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0LDW0ZZ	Extraction of Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0LHX0YZ	Insertion of Other Device into Upper Tendon, Open Approach	PX	ICD-10-PCS
0LHX4YZ	Insertion of Other Device into Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LHY0YZ	Insertion of Other Device into Lower Tendon, Open Approach	PX	ICD-10-PCS
0LHY4YZ	Insertion of Other Device into Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LM00ZZ	Reattachment of Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0LM04ZZ	Reattachment of Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LM10ZZ	Reattachment of Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LM14ZZ	Reattachment of Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LM20ZZ	Reattachment of Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LM24ZZ	Reattachment of Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LM30ZZ	Reattachment of Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LM34ZZ	Reattachment of Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LM40ZZ	Reattachment of Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LM44ZZ	Reattachment of Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LM50ZZ	Reattachment of Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LM54ZZ	Reattachment of Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LM60ZZ	Reattachment of Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LM64ZZ	Reattachment of Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LM70ZZ	Reattachment of Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0LM74ZZ	Reattachment of Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LM80ZZ	Reattachment of Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0LM84ZZ	Reattachment of Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LM90ZZ	Reattachment of Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LM94ZZ	Reattachment of Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMB0ZZ	Reattachment of Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LMB4ZZ	Reattachment of Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMC0ZZ	Reattachment of Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LMC4ZZ	Reattachment of Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMD0ZZ	Reattachment of Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LMD4ZZ	Reattachment of Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMF0ZZ	Reattachment of Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LMF4ZZ	Reattachment of Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMG0ZZ	Reattachment of Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LMG4ZZ	Reattachment of Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMH0ZZ	Reattachment of Perineum Tendon, Open Approach	PX	ICD-10-PCS
0LMH4ZZ	Reattachment of Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMJ0ZZ	Reattachment of Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0LMJ4ZZ	Reattachment of Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMK0ZZ	Reattachment of Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0LMK4ZZ	Reattachment of Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LML0ZZ	Reattachment of Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LML4ZZ	Reattachment of Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMM0ZZ	Reattachment of Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LMM4ZZ	Reattachment of Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMN0ZZ	Reattachment of Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LMN4ZZ	Reattachment of Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMP0ZZ	Reattachment of Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LMP4ZZ	Reattachment of Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMQ0ZZ	Reattachment of Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0LMQ4ZZ	Reattachment of Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMR0ZZ	Reattachment of Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0LMR4ZZ	Reattachment of Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMS0ZZ	Reattachment of Right Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LMS4ZZ	Reattachment of Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMT0ZZ	Reattachment of Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LMT4ZZ	Reattachment of Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMV0ZZ	Reattachment of Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0LMV4ZZ	Reattachment of Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LMW0ZZ	Reattachment of Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0LMW4ZZ	Reattachment of Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LN00ZZ	Release Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0LN03ZZ	Release Head and Neck Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LN04ZZ	Release Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LN10ZZ	Release Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LN13ZZ	Release Right Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LN14ZZ	Release Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LN20ZZ	Release Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LN23ZZ	Release Left Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LN24ZZ	Release Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LN30ZZ	Release Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LN33ZZ	Release Right Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LN34ZZ	Release Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LN40ZZ	Release Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LN43ZZ	Release Left Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LN44ZZ	Release Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LN50ZZ	Release Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LN53ZZ	Release Right Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LN54ZZ	Release Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LN60ZZ	Release Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LN63ZZ	Release Left Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LN64ZZ	Release Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LN70ZZ	Release Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0LN73ZZ	Release Right Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LN74ZZ	Release Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LN80ZZ	Release Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0LN83ZZ	Release Left Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LN84ZZ	Release Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LN90ZZ	Release Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LN93ZZ	Release Right Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LN94ZZ	Release Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNB0ZZ	Release Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LNB3ZZ	Release Left Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNB4ZZ	Release Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNC0ZZ	Release Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LNC3ZZ	Release Right Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNC4ZZ	Release Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LND0ZZ	Release Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LND3ZZ	Release Left Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LND4ZZ	Release Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNF0ZZ	Release Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LNF3ZZ	Release Right Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNF4ZZ	Release Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNG0ZZ	Release Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LNG3ZZ	Release Left Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNG4ZZ	Release Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNH0ZZ	Release Perineum Tendon, Open Approach	PX	ICD-10-PCS
0LNH3ZZ	Release Perineum Tendon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LNH4ZZ	Release Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNJ0ZZ	Release Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0LNJ3ZZ	Release Right Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNJ4ZZ	Release Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNK0ZZ	Release Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0LNK3ZZ	Release Left Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNK4ZZ	Release Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNL0ZZ	Release Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LNL3ZZ	Release Right Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNL4ZZ	Release Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNM0ZZ	Release Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LNM3ZZ	Release Left Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNM4ZZ	Release Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNN0ZZ	Release Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LNN3ZZ	Release Right Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNN4ZZ	Release Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNP0ZZ	Release Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LNP3ZZ	Release Left Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNP4ZZ	Release Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNQ0ZZ	Release Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0LNQ3ZZ	Release Right Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNQ4ZZ	Release Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNR0ZZ	Release Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0LNR3ZZ	Release Left Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNR4ZZ	Release Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNS0ZZ	Release Right Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LNS3ZZ	Release Right Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNS4ZZ	Release Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNT0ZZ	Release Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LNT3ZZ	Release Left Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNT4ZZ	Release Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNV0ZZ	Release Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0LNV3ZZ	Release Right Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNV4ZZ	Release Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LNW0ZZ	Release Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0LNW3ZZ	Release Left Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LNW4ZZ	Release Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LPX00Z	Removal of Drainage Device from Upper Tendon, Open Approach	PX	ICD-10-PCS
0LPX07Z	Removal of Autologous Tissue Substitute from Upper Tendon, Open Approach	PX	ICD-10-PCS
0LPX0JZ	Removal of Synthetic Substitute from Upper Tendon, Open Approach	PX	ICD-10-PCS
0LPX0KZ	Removal of Nonautologous Tissue Substitute from Upper Tendon, Open Approach	PX	ICD-10-PCS
0LPX0YZ	Removal of Other Device from Upper Tendon, Open Approach	PX	ICD-10-PCS
0LPX37Z	Removal of Autologous Tissue Substitute from Upper Tendon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LPX3JZ	Removal of Synthetic Substitute from Upper Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LPX3KZ	Removal of Nonautologous Tissue Substitute from Upper Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LPX40Z	Removal of Drainage Device from Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LPX47Z	Removal of Autologous Tissue Substitute from Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LPX4JZ	Removal of Synthetic Substitute from Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LPX4KZ	Removal of Nonautologous Tissue Substitute from Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LPX4YZ	Removal of Other Device from Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LPY00Z	Removal of Drainage Device from Lower Tendon, Open Approach	PX	ICD-10-PCS
0LPY07Z	Removal of Autologous Tissue Substitute from Lower Tendon, Open Approach	PX	ICD-10-PCS
0LPY0JZ	Removal of Synthetic Substitute from Lower Tendon, Open Approach	PX	ICD-10-PCS
0LPY0KZ	Removal of Nonautologous Tissue Substitute from Lower Tendon, Open Approach	PX	ICD-10-PCS
0LPY0YZ	Removal of Other Device from Lower Tendon, Open Approach	PX	ICD-10-PCS
0LPY37Z	Removal of Autologous Tissue Substitute from Lower Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LPY3JZ	Removal of Synthetic Substitute from Lower Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LPY3KZ	Removal of Nonautologous Tissue Substitute from Lower Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LPY40Z	Removal of Drainage Device from Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LPY47Z	Removal of Autologous Tissue Substitute from Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LPY4JZ	Removal of Synthetic Substitute from Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LPY4KZ	Removal of Nonautologous Tissue Substitute from Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LPY4YZ	Removal of Other Device from Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQ00ZZ	Repair Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0LQ03ZZ	Repair Head and Neck Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQ04ZZ	Repair Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQ10ZZ	Repair Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LQ13ZZ	Repair Right Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQ14ZZ	Repair Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQ20ZZ	Repair Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LQ23ZZ	Repair Left Shoulder Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQ24ZZ	Repair Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQ30ZZ	Repair Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LQ33ZZ	Repair Right Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LQ34ZZ	Repair Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQ40ZZ	Repair Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LQ43ZZ	Repair Left Upper Arm Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQ44ZZ	Repair Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQ50ZZ	Repair Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LQ53ZZ	Repair Right Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQ54ZZ	Repair Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQ60ZZ	Repair Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LQ63ZZ	Repair Left Lower Arm and Wrist Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQ64ZZ	Repair Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQ70ZZ	Repair Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0LQ73ZZ	Repair Right Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQ74ZZ	Repair Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQ80ZZ	Repair Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0LQ83ZZ	Repair Left Hand Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQ84ZZ	Repair Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQ90ZZ	Repair Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LQ93ZZ	Repair Right Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQ94ZZ	Repair Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQB0ZZ	Repair Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LQB3ZZ	Repair Left Trunk Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQB4ZZ	Repair Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQC0ZZ	Repair Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LQC3ZZ	Repair Right Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQC4ZZ	Repair Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQD0ZZ	Repair Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LQD3ZZ	Repair Left Thorax Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQD4ZZ	Repair Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQF0ZZ	Repair Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LQF3ZZ	Repair Right Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQF4ZZ	Repair Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQG0ZZ	Repair Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LQG3ZZ	Repair Left Abdomen Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQG4ZZ	Repair Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQH0ZZ	Repair Perineum Tendon, Open Approach	PX	ICD-10-PCS
0LQH3ZZ	Repair Perineum Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQH4ZZ	Repair Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQJ0ZZ	Repair Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0LQJ3ZZ	Repair Right Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQJ4ZZ	Repair Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQK0ZZ	Repair Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0LQK3ZZ	Repair Left Hip Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQK4ZZ	Repair Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQL0ZZ	Repair Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LQL3ZZ	Repair Right Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LQL4ZZ	Repair Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQM0ZZ	Repair Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LQM3ZZ	Repair Left Upper Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQM4ZZ	Repair Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQN0ZZ	Repair Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LQN3ZZ	Repair Right Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQN4ZZ	Repair Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQP0ZZ	Repair Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LQP3ZZ	Repair Left Lower Leg Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQP4ZZ	Repair Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQQ0ZZ	Repair Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0LQQ3ZZ	Repair Right Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQQ4ZZ	Repair Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQR0ZZ	Repair Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0LQR3ZZ	Repair Left Knee Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQR4ZZ	Repair Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQS0ZZ	Repair Right Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LQS3ZZ	Repair Right Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQS4ZZ	Repair Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQT0ZZ	Repair Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LQT3ZZ	Repair Left Ankle Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQT4ZZ	Repair Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQV0ZZ	Repair Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0LQV3ZZ	Repair Right Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQV4ZZ	Repair Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LQW0ZZ	Repair Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0LQW3ZZ	Repair Left Foot Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LQW4ZZ	Repair Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR007Z	Replacement of Head and Neck Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR00JZ	Replacement of Head and Neck Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LR00KZ	Replacement of Head and Neck Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR047Z	Replacement of Head and Neck Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR04JZ	Replacement of Head and Neck Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR04KZ	Replacement of Head and Neck Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR107Z	Replacement of Right Shoulder Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR10JZ	Replacement of Right Shoulder Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LR10KZ	Replacement of Right Shoulder Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR147Z	Replacement of Right Shoulder Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR14JZ	Replacement of Right Shoulder Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR14KZ	Replacement of Right Shoulder Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR207Z	Replacement of Left Shoulder Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR20JZ	Replacement of Left Shoulder Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LR20KZ	Replacement of Left Shoulder Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR247Z	Replacement of Left Shoulder Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR24JZ	Replacement of Left Shoulder Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR24KZ	Replacement of Left Shoulder Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR307Z	Replacement of Right Upper Arm Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR30JZ	Replacement of Right Upper Arm Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LR30KZ	Replacement of Right Upper Arm Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR347Z	Replacement of Right Upper Arm Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR34JZ	Replacement of Right Upper Arm Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR34KZ	Replacement of Right Upper Arm Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR407Z	Replacement of Left Upper Arm Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR40JZ	Replacement of Left Upper Arm Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LR40KZ	Replacement of Left Upper Arm Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR447Z	Replacement of Left Upper Arm Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR44JZ	Replacement of Left Upper Arm Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR44KZ	Replacement of Left Upper Arm Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LR507Z	Replacement of Right Lower Arm and Wrist Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR50JZ	Replacement of Right Lower Arm and Wrist Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LR50KZ	Replacement of Right Lower Arm and Wrist Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR547Z	Replacement of Right Lower Arm and Wrist Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR54JZ	Replacement of Right Lower Arm and Wrist Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR54KZ	Replacement of Right Lower Arm and Wrist Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR607Z	Replacement of Left Lower Arm and Wrist Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR60JZ	Replacement of Left Lower Arm and Wrist Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LR60KZ	Replacement of Left Lower Arm and Wrist Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR647Z	Replacement of Left Lower Arm and Wrist Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR64JZ	Replacement of Left Lower Arm and Wrist Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR64KZ	Replacement of Left Lower Arm and Wrist Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR707Z	Replacement of Right Hand Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR70JZ	Replacement of Right Hand Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LR70KZ	Replacement of Right Hand Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR747Z	Replacement of Right Hand Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR74JZ	Replacement of Right Hand Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR74KZ	Replacement of Right Hand Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR807Z	Replacement of Left Hand Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR80JZ	Replacement of Left Hand Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LR80KZ	Replacement of Left Hand Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR847Z	Replacement of Left Hand Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR84JZ	Replacement of Left Hand Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LR84KZ	Replacement of Left Hand Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR907Z	Replacement of Right Trunk Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR90JZ	Replacement of Right Trunk Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LR90KZ	Replacement of Right Trunk Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LR947Z	Replacement of Right Trunk Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR94JZ	Replacement of Right Trunk Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LR94KZ	Replacement of Right Trunk Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRB07Z	Replacement of Left Trunk Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRB0JZ	Replacement of Left Trunk Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRB0KZ	Replacement of Left Trunk Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRB47Z	Replacement of Left Trunk Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRB4JZ	Replacement of Left Trunk Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRB4KZ	Replacement of Left Trunk Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRC07Z	Replacement of Right Thorax Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRC0JZ	Replacement of Right Thorax Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRC0KZ	Replacement of Right Thorax Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRC47Z	Replacement of Right Thorax Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRC4JZ	Replacement of Right Thorax Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRC4KZ	Replacement of Right Thorax Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRD07Z	Replacement of Left Thorax Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRD0JZ	Replacement of Left Thorax Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRD0KZ	Replacement of Left Thorax Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRD47Z	Replacement of Left Thorax Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRD4JZ	Replacement of Left Thorax Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LRD4KZ	Replacement of Left Thorax Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRF07Z	Replacement of Right Abdomen Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRF0JZ	Replacement of Right Abdomen Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRF0KZ	Replacement of Right Abdomen Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRF47Z	Replacement of Right Abdomen Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRF4JZ	Replacement of Right Abdomen Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRF4KZ	Replacement of Right Abdomen Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRG07Z	Replacement of Left Abdomen Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRG0JZ	Replacement of Left Abdomen Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRG0KZ	Replacement of Left Abdomen Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRG47Z	Replacement of Left Abdomen Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRG4JZ	Replacement of Left Abdomen Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRG4KZ	Replacement of Left Abdomen Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRH07Z	Replacement of Perineum Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRH0JZ	Replacement of Perineum Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRH0KZ	Replacement of Perineum Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRH47Z	Replacement of Perineum Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRH4JZ	Replacement of Perineum Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRH4KZ	Replacement of Perineum Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRJ07Z	Replacement of Right Hip Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRJ0JZ	Replacement of Right Hip Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRJ0KZ	Replacement of Right Hip Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRJ47Z	Replacement of Right Hip Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LRJ4JZ	Replacement of Right Hip Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRJ4KZ	Replacement of Right Hip Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRK07Z	Replacement of Left Hip Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRK0JZ	Replacement of Left Hip Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRK0KZ	Replacement of Left Hip Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRK47Z	Replacement of Left Hip Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRK4JZ	Replacement of Left Hip Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRK4KZ	Replacement of Left Hip Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRL07Z	Replacement of Right Upper Leg Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRL0JZ	Replacement of Right Upper Leg Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRL0KZ	Replacement of Right Upper Leg Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRL47Z	Replacement of Right Upper Leg Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRL4JZ	Replacement of Right Upper Leg Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRL4KZ	Replacement of Right Upper Leg Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRM07Z	Replacement of Left Upper Leg Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRM0JZ	Replacement of Left Upper Leg Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRM0KZ	Replacement of Left Upper Leg Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRM47Z	Replacement of Left Upper Leg Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRM4JZ	Replacement of Left Upper Leg Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRM4KZ	Replacement of Left Upper Leg Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRN07Z	Replacement of Right Lower Leg Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRN0JZ	Replacement of Right Lower Leg Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRN0KZ	Replacement of Right Lower Leg Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LRN47Z	Replacement of Right Lower Leg Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRN4JZ	Replacement of Right Lower Leg Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRN4KZ	Replacement of Right Lower Leg Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRP07Z	Replacement of Left Lower Leg Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRP0JZ	Replacement of Left Lower Leg Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRP0KZ	Replacement of Left Lower Leg Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRP47Z	Replacement of Left Lower Leg Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRP4JZ	Replacement of Left Lower Leg Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRP4KZ	Replacement of Left Lower Leg Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRQ07Z	Replacement of Right Knee Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRQ0JZ	Replacement of Right Knee Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRQ0KZ	Replacement of Right Knee Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRQ47Z	Replacement of Right Knee Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRQ4JZ	Replacement of Right Knee Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRQ4KZ	Replacement of Right Knee Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRR07Z	Replacement of Left Knee Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRR0JZ	Replacement of Left Knee Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRR0KZ	Replacement of Left Knee Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRR47Z	Replacement of Left Knee Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRR4JZ	Replacement of Left Knee Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRR4KZ	Replacement of Left Knee Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRS07Z	Replacement of Right Ankle Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRS0JZ	Replacement of Right Ankle Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRS0KZ	Replacement of Right Ankle Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LRS47Z	Replacement of Right Ankle Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRS4JZ	Replacement of Right Ankle Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRS4KZ	Replacement of Right Ankle Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRT07Z	Replacement of Left Ankle Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRT0JZ	Replacement of Left Ankle Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRT0KZ	Replacement of Left Ankle Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRT47Z	Replacement of Left Ankle Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRT4JZ	Replacement of Left Ankle Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRT4KZ	Replacement of Left Ankle Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRV07Z	Replacement of Right Foot Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRV0JZ	Replacement of Right Foot Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRV0KZ	Replacement of Right Foot Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRV47Z	Replacement of Right Foot Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRV4JZ	Replacement of Right Foot Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRV4KZ	Replacement of Right Foot Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRW07Z	Replacement of Left Foot Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRW0JZ	Replacement of Left Foot Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LRW0KZ	Replacement of Left Foot Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LRW47Z	Replacement of Left Foot Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRW4JZ	Replacement of Left Foot Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LRW4KZ	Replacement of Left Foot Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LS00ZZ	Reposition Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0LS04ZZ	Reposition Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LS10ZZ	Reposition Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LS14ZZ	Reposition Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LS20ZZ	Reposition Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LS24ZZ	Reposition Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LS30ZZ	Reposition Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LS34ZZ	Reposition Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LS40ZZ	Reposition Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LS44ZZ	Reposition Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LS50ZZ	Reposition Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LS54ZZ	Reposition Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LS60ZZ	Reposition Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LS64ZZ	Reposition Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LS70ZZ	Reposition Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0LS74ZZ	Reposition Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LS80ZZ	Reposition Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0LS84ZZ	Reposition Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LS90ZZ	Reposition Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LS94ZZ	Reposition Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSB0ZZ	Reposition Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LSB4ZZ	Reposition Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSC0ZZ	Reposition Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LSC4ZZ	Reposition Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSD0ZZ	Reposition Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LSD4ZZ	Reposition Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSF0ZZ	Reposition Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LSF4ZZ	Reposition Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSG0ZZ	Reposition Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LSG4ZZ	Reposition Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSH0ZZ	Reposition Perineum Tendon, Open Approach	PX	ICD-10-PCS
0LSH4ZZ	Reposition Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSJ0ZZ	Reposition Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0LSJ4ZZ	Reposition Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSK0ZZ	Reposition Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0LSK4ZZ	Reposition Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSL0ZZ	Reposition Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LSL4ZZ	Reposition Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSM0ZZ	Reposition Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LSM4ZZ	Reposition Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSN0ZZ	Reposition Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LSN4ZZ	Reposition Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSP0ZZ	Reposition Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LSP4ZZ	Reposition Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSQ0ZZ	Reposition Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0LSQ4ZZ	Reposition Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSR0ZZ	Reposition Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0LSR4ZZ	Reposition Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSS0ZZ	Reposition Right Ankle Tendon, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LSS4ZZ	Reposition Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LST0ZZ	Reposition Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LST4ZZ	Reposition Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSV0ZZ	Reposition Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0LSV4ZZ	Reposition Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LSW0ZZ	Reposition Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0LSW4ZZ	Reposition Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LT00ZZ	Resection of Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0LT04ZZ	Resection of Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LT10ZZ	Resection of Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LT14ZZ	Resection of Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LT20ZZ	Resection of Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LT24ZZ	Resection of Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LT30ZZ	Resection of Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LT34ZZ	Resection of Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LT40ZZ	Resection of Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LT44ZZ	Resection of Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LT50ZZ	Resection of Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LT54ZZ	Resection of Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LT60ZZ	Resection of Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LT64ZZ	Resection of Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LT70ZZ	Resection of Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0LT74ZZ	Resection of Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LT80ZZ	Resection of Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0LT84ZZ	Resection of Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LT90ZZ	Resection of Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LT94ZZ	Resection of Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTB0ZZ	Resection of Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LTB4ZZ	Resection of Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTC0ZZ	Resection of Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LTC4ZZ	Resection of Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTD0ZZ	Resection of Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LTD4ZZ	Resection of Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTF0ZZ	Resection of Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LTF4ZZ	Resection of Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTG0ZZ	Resection of Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LTG4ZZ	Resection of Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTH0ZZ	Resection of Perineum Tendon, Open Approach	PX	ICD-10-PCS
0LTH4ZZ	Resection of Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTJ0ZZ	Resection of Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0LTJ4ZZ	Resection of Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTK0ZZ	Resection of Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0LTK4ZZ	Resection of Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LTL0ZZ	Resection of Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LTL4ZZ	Resection of Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTM0ZZ	Resection of Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LTM4ZZ	Resection of Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTN0ZZ	Resection of Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LTN4ZZ	Resection of Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTP0ZZ	Resection of Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LTP4ZZ	Resection of Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTQ0ZZ	Resection of Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0LTQ4ZZ	Resection of Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTR0ZZ	Resection of Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0LTR4ZZ	Resection of Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTS0ZZ	Resection of Right Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LTS4ZZ	Resection of Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTT0ZZ	Resection of Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LTT4ZZ	Resection of Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTV0ZZ	Resection of Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0LTV4ZZ	Resection of Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LTW0ZZ	Resection of Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0LTW4ZZ	Resection of Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU007Z	Supplement Head and Neck Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU00JZ	Supplement Head and Neck Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LU00KZ	Supplement Head and Neck Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU047Z	Supplement Head and Neck Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU04JZ	Supplement Head and Neck Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU04KZ	Supplement Head and Neck Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU107Z	Supplement Right Shoulder Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU10JZ	Supplement Right Shoulder Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LU10KZ	Supplement Right Shoulder Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU147Z	Supplement Right Shoulder Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU14JZ	Supplement Right Shoulder Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU14KZ	Supplement Right Shoulder Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU207Z	Supplement Left Shoulder Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU20JZ	Supplement Left Shoulder Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LU20KZ	Supplement Left Shoulder Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU247Z	Supplement Left Shoulder Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU24JZ	Supplement Left Shoulder Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU24KZ	Supplement Left Shoulder Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU307Z	Supplement Right Upper Arm Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU30JZ	Supplement Right Upper Arm Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LU30KZ	Supplement Right Upper Arm Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU347Z	Supplement Right Upper Arm Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU34JZ	Supplement Right Upper Arm Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU34KZ	Supplement Right Upper Arm Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU407Z	Supplement Left Upper Arm Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU40JZ	Supplement Left Upper Arm Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LU40KZ	Supplement Left Upper Arm Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU447Z	Supplement Left Upper Arm Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU44JZ	Supplement Left Upper Arm Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU44KZ	Supplement Left Upper Arm Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU507Z	Supplement Right Lower Arm and Wrist Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU50JZ	Supplement Right Lower Arm and Wrist Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LU50KZ	Supplement Right Lower Arm and Wrist Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU547Z	Supplement Right Lower Arm and Wrist Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU54JZ	Supplement Right Lower Arm and Wrist Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU54KZ	Supplement Right Lower Arm and Wrist Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU607Z	Supplement Left Lower Arm and Wrist Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LU60JZ	Supplement Left Lower Arm and Wrist Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LU60KZ	Supplement Left Lower Arm and Wrist Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU647Z	Supplement Left Lower Arm and Wrist Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU64JZ	Supplement Left Lower Arm and Wrist Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU64KZ	Supplement Left Lower Arm and Wrist Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU707Z	Supplement Right Hand Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU70JZ	Supplement Right Hand Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LU70KZ	Supplement Right Hand Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU747Z	Supplement Right Hand Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU74JZ	Supplement Right Hand Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU74KZ	Supplement Right Hand Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU807Z	Supplement Left Hand Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU80JZ	Supplement Left Hand Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LU80KZ	Supplement Left Hand Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU847Z	Supplement Left Hand Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU84JZ	Supplement Left Hand Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU84KZ	Supplement Left Hand Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU907Z	Supplement Right Trunk Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU90JZ	Supplement Right Trunk Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LU90KZ	Supplement Right Trunk Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LU947Z	Supplement Right Trunk Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU94JZ	Supplement Right Trunk Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LU94KZ	Supplement Right Trunk Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUB07Z	Supplement Left Trunk Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LUB0JZ	Supplement Left Trunk Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUB0KZ	Supplement Left Trunk Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUB47Z	Supplement Left Trunk Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUB4JZ	Supplement Left Trunk Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUB4KZ	Supplement Left Trunk Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUC07Z	Supplement Right Thorax Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUC0JZ	Supplement Right Thorax Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUC0KZ	Supplement Right Thorax Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUC47Z	Supplement Right Thorax Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUC4JZ	Supplement Right Thorax Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUC4KZ	Supplement Right Thorax Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUD07Z	Supplement Left Thorax Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUD0JZ	Supplement Left Thorax Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUD0KZ	Supplement Left Thorax Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUD47Z	Supplement Left Thorax Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUD4JZ	Supplement Left Thorax Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUD4KZ	Supplement Left Thorax Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUF07Z	Supplement Right Abdomen Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUF0JZ	Supplement Right Abdomen Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUF0KZ	Supplement Right Abdomen Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUF47Z	Supplement Right Abdomen Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUF4JZ	Supplement Right Abdomen Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUF4KZ	Supplement Right Abdomen Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUG07Z	Supplement Left Abdomen Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUG0JZ	Supplement Left Abdomen Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LUG0KZ	Supplement Left Abdomen Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUG47Z	Supplement Left Abdomen Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUG4JZ	Supplement Left Abdomen Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUG4KZ	Supplement Left Abdomen Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUH07Z	Supplement Perineum Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUH0JZ	Supplement Perineum Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUH0KZ	Supplement Perineum Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUH47Z	Supplement Perineum Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUH4JZ	Supplement Perineum Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUH4KZ	Supplement Perineum Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUJ07Z	Supplement Right Hip Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUJ0JZ	Supplement Right Hip Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUJ0KZ	Supplement Right Hip Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUJ47Z	Supplement Right Hip Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUJ4JZ	Supplement Right Hip Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUJ4KZ	Supplement Right Hip Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUK07Z	Supplement Left Hip Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUK0JZ	Supplement Left Hip Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUK0KZ	Supplement Left Hip Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUK47Z	Supplement Left Hip Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUK4JZ	Supplement Left Hip Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUK4KZ	Supplement Left Hip Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUL07Z	Supplement Right Upper Leg Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUL0JZ	Supplement Right Upper Leg Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUL0KZ	Supplement Right Upper Leg Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LUL47Z	Supplement Right Upper Leg Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUL4JZ	Supplement Right Upper Leg Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUL4KZ	Supplement Right Upper Leg Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUM07Z	Supplement Left Upper Leg Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUM0JZ	Supplement Left Upper Leg Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUM0KZ	Supplement Left Upper Leg Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUM47Z	Supplement Left Upper Leg Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUM4JZ	Supplement Left Upper Leg Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUM4KZ	Supplement Left Upper Leg Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUN07Z	Supplement Right Lower Leg Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUN0JZ	Supplement Right Lower Leg Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUN0KZ	Supplement Right Lower Leg Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUN47Z	Supplement Right Lower Leg Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUN4JZ	Supplement Right Lower Leg Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUN4KZ	Supplement Right Lower Leg Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUP07Z	Supplement Left Lower Leg Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUP0JZ	Supplement Left Lower Leg Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUP0KZ	Supplement Left Lower Leg Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUP47Z	Supplement Left Lower Leg Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUP4JZ	Supplement Left Lower Leg Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUP4KZ	Supplement Left Lower Leg Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUQ07Z	Supplement Right Knee Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUQ0JZ	Supplement Right Knee Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUQ0KZ	Supplement Right Knee Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LUQ47Z	Supplement Right Knee Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUQ4JZ	Supplement Right Knee Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUQ4KZ	Supplement Right Knee Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUR07Z	Supplement Left Knee Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUR0JZ	Supplement Left Knee Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUR0KZ	Supplement Left Knee Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUR47Z	Supplement Left Knee Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUR4JZ	Supplement Left Knee Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUR4KZ	Supplement Left Knee Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUS07Z	Supplement Right Ankle Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUS0JZ	Supplement Right Ankle Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUS0KZ	Supplement Right Ankle Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUS47Z	Supplement Right Ankle Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUS4JZ	Supplement Right Ankle Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUS4KZ	Supplement Right Ankle Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUT07Z	Supplement Left Ankle Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUT0JZ	Supplement Left Ankle Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUT0KZ	Supplement Left Ankle Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUT47Z	Supplement Left Ankle Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUT4JZ	Supplement Left Ankle Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUT4KZ	Supplement Left Ankle Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUV07Z	Supplement Right Foot Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUV0JZ	Supplement Right Foot Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUV0KZ	Supplement Right Foot Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LUV47Z	Supplement Right Foot Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUV4JZ	Supplement Right Foot Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUV4KZ	Supplement Right Foot Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUW07Z	Supplement Left Foot Tendon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUW0JZ	Supplement Left Foot Tendon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0LUW0KZ	Supplement Left Foot Tendon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0LUW47Z	Supplement Left Foot Tendon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUW4JZ	Supplement Left Foot Tendon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LUW4KZ	Supplement Left Foot Tendon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LWX00Z	Revision of Drainage Device in Upper Tendon, Open Approach	PX	ICD-10-PCS
0LWX07Z	Revision of Autologous Tissue Substitute in Upper Tendon, Open Approach	PX	ICD-10-PCS
0LWX0JZ	Revision of Synthetic Substitute in Upper Tendon, Open Approach	PX	ICD-10-PCS
0LWX0KZ	Revision of Nonautologous Tissue Substitute in Upper Tendon, Open Approach	PX	ICD-10-PCS
0LWX0YZ	Revision of Other Device in Upper Tendon, Open Approach	PX	ICD-10-PCS
0LWX30Z	Revision of Drainage Device in Upper Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LWX37Z	Revision of Autologous Tissue Substitute in Upper Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LWX3JZ	Revision of Synthetic Substitute in Upper Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LWX3KZ	Revision of Nonautologous Tissue Substitute in Upper Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LWX40Z	Revision of Drainage Device in Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LWX47Z	Revision of Autologous Tissue Substitute in Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LWX4JZ	Revision of Synthetic Substitute in Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LWX4KZ	Revision of Nonautologous Tissue Substitute in Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LWX4YZ	Revision of Other Device in Upper Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LWY00Z	Revision of Drainage Device in Lower Tendon, Open Approach	PX	ICD-10-PCS
0LWY07Z	Revision of Autologous Tissue Substitute in Lower Tendon, Open Approach	PX	ICD-10-PCS
0LWY0JZ	Revision of Synthetic Substitute in Lower Tendon, Open Approach	PX	ICD-10-PCS
0LWY0KZ	Revision of Nonautologous Tissue Substitute in Lower Tendon, Open Approach	PX	ICD-10-PCS
0LWY0YZ	Revision of Other Device in Lower Tendon, Open Approach	PX	ICD-10-PCS
0LWY30Z	Revision of Drainage Device in Lower Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LWY37Z	Revision of Autologous Tissue Substitute in Lower Tendon, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LWY3JZ	Revision of Synthetic Substitute in Lower Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LWY3KZ	Revision of Nonautologous Tissue Substitute in Lower Tendon, Percutaneous Approach	PX	ICD-10-PCS
0LWY40Z	Revision of Drainage Device in Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LWY47Z	Revision of Autologous Tissue Substitute in Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LWY4JZ	Revision of Synthetic Substitute in Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LWY4KZ	Revision of Nonautologous Tissue Substitute in Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LWY4YZ	Revision of Other Device in Lower Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LX00ZZ	Transfer Head and Neck Tendon, Open Approach	PX	ICD-10-PCS
0LX04ZZ	Transfer Head and Neck Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LX10ZZ	Transfer Right Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LX14ZZ	Transfer Right Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LX20ZZ	Transfer Left Shoulder Tendon, Open Approach	PX	ICD-10-PCS
0LX24ZZ	Transfer Left Shoulder Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LX30ZZ	Transfer Right Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LX34ZZ	Transfer Right Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LX40ZZ	Transfer Left Upper Arm Tendon, Open Approach	PX	ICD-10-PCS
0LX44ZZ	Transfer Left Upper Arm Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LX50ZZ	Transfer Right Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LX54ZZ	Transfer Right Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LX60ZZ	Transfer Left Lower Arm and Wrist Tendon, Open Approach	PX	ICD-10-PCS
0LX64ZZ	Transfer Left Lower Arm and Wrist Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LX70ZZ	Transfer Right Hand Tendon, Open Approach	PX	ICD-10-PCS
0LX74ZZ	Transfer Right Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LX80ZZ	Transfer Left Hand Tendon, Open Approach	PX	ICD-10-PCS
0LX84ZZ	Transfer Left Hand Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LX90ZZ	Transfer Right Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LX94ZZ	Transfer Right Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXB0ZZ	Transfer Left Trunk Tendon, Open Approach	PX	ICD-10-PCS
0LXB4ZZ	Transfer Left Trunk Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXC0ZZ	Transfer Right Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LXC4ZZ	Transfer Right Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXD0ZZ	Transfer Left Thorax Tendon, Open Approach	PX	ICD-10-PCS
0LXD4ZZ	Transfer Left Thorax Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXF0ZZ	Transfer Right Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LXF4ZZ	Transfer Right Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXG0ZZ	Transfer Left Abdomen Tendon, Open Approach	PX	ICD-10-PCS
0LXG4ZZ	Transfer Left Abdomen Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXH0ZZ	Transfer Perineum Tendon, Open Approach	PX	ICD-10-PCS
0LXH4ZZ	Transfer Perineum Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0LXJ0ZZ	Transfer Right Hip Tendon, Open Approach	PX	ICD-10-PCS
0LXJ4ZZ	Transfer Right Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXK0ZZ	Transfer Left Hip Tendon, Open Approach	PX	ICD-10-PCS
0LXK4ZZ	Transfer Left Hip Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXL0ZZ	Transfer Right Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LXL4ZZ	Transfer Right Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXM0ZZ	Transfer Left Upper Leg Tendon, Open Approach	PX	ICD-10-PCS
0LXM4ZZ	Transfer Left Upper Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXN0ZZ	Transfer Right Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LXN4ZZ	Transfer Right Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXP0ZZ	Transfer Left Lower Leg Tendon, Open Approach	PX	ICD-10-PCS
0LXP4ZZ	Transfer Left Lower Leg Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXQ0ZZ	Transfer Right Knee Tendon, Open Approach	PX	ICD-10-PCS
0LXQ4ZZ	Transfer Right Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXR0ZZ	Transfer Left Knee Tendon, Open Approach	PX	ICD-10-PCS
0LXR4ZZ	Transfer Left Knee Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXS0ZZ	Transfer Right Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LXS4ZZ	Transfer Right Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXT0ZZ	Transfer Left Ankle Tendon, Open Approach	PX	ICD-10-PCS
0LXT4ZZ	Transfer Left Ankle Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXV0ZZ	Transfer Right Foot Tendon, Open Approach	PX	ICD-10-PCS
0LXV4ZZ	Transfer Right Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0LXW0ZZ	Transfer Left Foot Tendon, Open Approach	PX	ICD-10-PCS
0LXW4ZZ	Transfer Left Foot Tendon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M500ZZ	Destruction of Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M503ZZ	Destruction of Head and Neck Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M504ZZ	Destruction of Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M510ZZ	Destruction of Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M513ZZ	Destruction of Right Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M514ZZ	Destruction of Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M520ZZ	Destruction of Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M523ZZ	Destruction of Left Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M524ZZ	Destruction of Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M530ZZ	Destruction of Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M533ZZ	Destruction of Right Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M534ZZ	Destruction of Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M540ZZ	Destruction of Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M543ZZ	Destruction of Left Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M544ZZ	Destruction of Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M550ZZ	Destruction of Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0M553ZZ	Destruction of Right Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M554ZZ	Destruction of Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M560ZZ	Destruction of Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M563ZZ	Destruction of Left Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M564ZZ	Destruction of Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M570ZZ	Destruction of Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M573ZZ	Destruction of Right Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M574ZZ	Destruction of Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M580ZZ	Destruction of Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M583ZZ	Destruction of Left Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M584ZZ	Destruction of Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M590ZZ	Destruction of Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M593ZZ	Destruction of Right Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M594ZZ	Destruction of Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5B0ZZ	Destruction of Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5B3ZZ	Destruction of Left Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5B4ZZ	Destruction of Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5C0ZZ	Destruction of Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5C3ZZ	Destruction of Upper Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5C4ZZ	Destruction of Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5D0ZZ	Destruction of Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5D3ZZ	Destruction of Lower Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5D4ZZ	Destruction of Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5F0ZZ	Destruction of Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5F3ZZ	Destruction of Sternum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5F4ZZ	Destruction of Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5G0ZZ	Destruction of Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5G3ZZ	Destruction of Rib(s) Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5G4ZZ	Destruction of Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5H0ZZ	Destruction of Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5H3ZZ	Destruction of Right Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5H4ZZ	Destruction of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5J0ZZ	Destruction of Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0M5J3ZZ	Destruction of Left Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5J4ZZ	Destruction of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5K0ZZ	Destruction of Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5K3ZZ	Destruction of Perineum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5K4ZZ	Destruction of Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5L0ZZ	Destruction of Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5L3ZZ	Destruction of Right Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5L4ZZ	Destruction of Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5M0ZZ	Destruction of Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5M3ZZ	Destruction of Left Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5M4ZZ	Destruction of Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5N0ZZ	Destruction of Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5N3ZZ	Destruction of Right Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5N4ZZ	Destruction of Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5P0ZZ	Destruction of Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5P3ZZ	Destruction of Left Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5P4ZZ	Destruction of Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5Q0ZZ	Destruction of Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5Q3ZZ	Destruction of Right Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5Q4ZZ	Destruction of Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5R0ZZ	Destruction of Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5R3ZZ	Destruction of Left Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5R4ZZ	Destruction of Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5S0ZZ	Destruction of Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5S3ZZ	Destruction of Right Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5S4ZZ	Destruction of Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5T0ZZ	Destruction of Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5T3ZZ	Destruction of Left Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5T4ZZ	Destruction of Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5V0ZZ	Destruction of Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M5V3ZZ	Destruction of Right Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5V4ZZ	Destruction of Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M5W0ZZ	Destruction of Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0M5W3ZZ	Destruction of Left Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M5W4ZZ	Destruction of Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M800ZZ	Division of Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M803ZZ	Division of Head and Neck Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M804ZZ	Division of Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M810ZZ	Division of Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M813ZZ	Division of Right Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M814ZZ	Division of Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M820ZZ	Division of Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M823ZZ	Division of Left Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M824ZZ	Division of Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M830ZZ	Division of Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M833ZZ	Division of Right Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M834ZZ	Division of Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M840ZZ	Division of Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M843ZZ	Division of Left Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M844ZZ	Division of Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M850ZZ	Division of Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M854ZZ	Division of Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M860ZZ	Division of Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M864ZZ	Division of Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M870ZZ	Division of Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M873ZZ	Division of Right Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M874ZZ	Division of Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M880ZZ	Division of Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M883ZZ	Division of Left Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M884ZZ	Division of Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M890ZZ	Division of Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M893ZZ	Division of Right Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M894ZZ	Division of Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8B0ZZ	Division of Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8B3ZZ	Division of Left Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8B4ZZ	Division of Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8C0ZZ	Division of Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8C3ZZ	Division of Upper Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8C4ZZ	Division of Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8D0ZZ	Division of Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0M8D3ZZ	Division of Lower Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8D4ZZ	Division of Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8F0ZZ	Division of Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8F3ZZ	Division of Sternum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8F4ZZ	Division of Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8G0ZZ	Division of Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8G3ZZ	Division of Rib(s) Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8G4ZZ	Division of Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8H0ZZ	Division of Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8H3ZZ	Division of Right Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8H4ZZ	Division of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8J0ZZ	Division of Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8J3ZZ	Division of Left Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8J4ZZ	Division of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8K0ZZ	Division of Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8K3ZZ	Division of Perineum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8K4ZZ	Division of Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8L0ZZ	Division of Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8L3ZZ	Division of Right Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8L4ZZ	Division of Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8M0ZZ	Division of Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8M3ZZ	Division of Left Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8M4ZZ	Division of Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8N0ZZ	Division of Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8N3ZZ	Division of Right Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8N4ZZ	Division of Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8P0ZZ	Division of Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8P3ZZ	Division of Left Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8P4ZZ	Division of Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8Q0ZZ	Division of Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8Q3ZZ	Division of Right Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8Q4ZZ	Division of Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8R0ZZ	Division of Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8R3ZZ	Division of Left Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8R4ZZ	Division of Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8S0ZZ	Division of Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8S3ZZ	Division of Right Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8S4ZZ	Division of Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8T0ZZ	Division of Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8T3ZZ	Division of Left Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8T4ZZ	Division of Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8V0ZZ	Division of Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0M8V3ZZ	Division of Right Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8V4ZZ	Division of Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M8W0ZZ	Division of Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M8W3ZZ	Division of Left Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0M8W4ZZ	Division of Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9000Z	Drainage of Head and Neck Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M900ZZ	Drainage of Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9040Z	Drainage of Head and Neck Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M904ZZ	Drainage of Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9100Z	Drainage of Right Shoulder Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M910ZZ	Drainage of Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9140Z	Drainage of Right Shoulder Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M914ZZ	Drainage of Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9200Z	Drainage of Left Shoulder Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M920ZZ	Drainage of Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9240Z	Drainage of Left Shoulder Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M924ZZ	Drainage of Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9300Z	Drainage of Right Elbow Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M930ZZ	Drainage of Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9340Z	Drainage of Right Elbow Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M934ZZ	Drainage of Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9400Z	Drainage of Left Elbow Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M940ZZ	Drainage of Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9440Z	Drainage of Left Elbow Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M944ZZ	Drainage of Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9500Z	Drainage of Right Wrist Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M950ZZ	Drainage of Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0M9540Z	Drainage of Right Wrist Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M954ZZ	Drainage of Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9600Z	Drainage of Left Wrist Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M960ZZ	Drainage of Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9640Z	Drainage of Left Wrist Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M964ZZ	Drainage of Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9700Z	Drainage of Right Hand Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M970ZZ	Drainage of Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9740Z	Drainage of Right Hand Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M974ZZ	Drainage of Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9800Z	Drainage of Left Hand Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M980ZZ	Drainage of Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9840Z	Drainage of Left Hand Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M984ZZ	Drainage of Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9900Z	Drainage of Right Upper Extremity Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M990ZZ	Drainage of Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9940Z	Drainage of Right Upper Extremity Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M994ZZ	Drainage of Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9B00Z	Drainage of Left Upper Extremity Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9B0ZZ	Drainage of Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9B40Z	Drainage of Left Upper Extremity Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9B4ZZ	Drainage of Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9C00Z	Drainage of Upper Spine Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9C0ZZ	Drainage of Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9C40Z	Drainage of Upper Spine Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9C4ZZ	Drainage of Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0M9D00Z	Drainage of Lower Spine Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9D0ZZ	Drainage of Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9D40Z	Drainage of Lower Spine Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9D4ZZ	Drainage of Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9F00Z	Drainage of Sternum Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9F0ZZ	Drainage of Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9F40Z	Drainage of Sternum Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9F4ZZ	Drainage of Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9G00Z	Drainage of Rib(s) Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9G0ZZ	Drainage of Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9G40Z	Drainage of Rib(s) Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9G4ZZ	Drainage of Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9H00Z	Drainage of Right Abdomen Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9H0ZZ	Drainage of Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9H40Z	Drainage of Right Abdomen Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9H4ZZ	Drainage of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9J00Z	Drainage of Left Abdomen Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9J0ZZ	Drainage of Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9J40Z	Drainage of Left Abdomen Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9J4ZZ	Drainage of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9K00Z	Drainage of Perineum Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9K0ZZ	Drainage of Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9K40Z	Drainage of Perineum Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9K4ZZ	Drainage of Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9L00Z	Drainage of Right Hip Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9L0ZZ	Drainage of Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9L40Z	Drainage of Right Hip Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9L4ZZ	Drainage of Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9M00Z	Drainage of Left Hip Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9M0ZZ	Drainage of Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0M9M40Z	Drainage of Left Hip Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9M4ZZ	Drainage of Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9N00Z	Drainage of Right Knee Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9N0ZZ	Drainage of Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9N40Z	Drainage of Right Knee Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9N4ZZ	Drainage of Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9P00Z	Drainage of Left Knee Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9P0ZZ	Drainage of Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9P40Z	Drainage of Left Knee Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9P4ZZ	Drainage of Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9Q00Z	Drainage of Right Ankle Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9Q0ZZ	Drainage of Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9Q40Z	Drainage of Right Ankle Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9Q4ZZ	Drainage of Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9R00Z	Drainage of Left Ankle Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9R0ZZ	Drainage of Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9R40Z	Drainage of Left Ankle Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9R4ZZ	Drainage of Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9S00Z	Drainage of Right Foot Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9S0ZZ	Drainage of Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9S40Z	Drainage of Right Foot Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9S4ZZ	Drainage of Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9T00Z	Drainage of Left Foot Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9T0ZZ	Drainage of Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9T40Z	Drainage of Left Foot Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9T4ZZ	Drainage of Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9V00Z	Drainage of Right Lower Extremity Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9V0ZZ	Drainage of Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9V40Z	Drainage of Right Lower Extremity Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9V4ZZ	Drainage of Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0M9W00Z	Drainage of Left Lower Extremity Bursa and Ligament with Drainage Device, Open Approach	PX	ICD-10-PCS
0M9W0ZZ	Drainage of Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0M9W40Z	Drainage of Left Lower Extremity Bursa and Ligament with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0M9W4ZZ	Drainage of Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MB00ZZ	Excision of Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MB03ZZ	Excision of Head and Neck Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MB04ZZ	Excision of Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MB10ZZ	Excision of Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MB13ZZ	Excision of Right Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MB14ZZ	Excision of Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MB20ZZ	Excision of Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MB23ZZ	Excision of Left Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MB24ZZ	Excision of Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MB30ZZ	Excision of Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MB33ZZ	Excision of Right Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MB34ZZ	Excision of Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MB40ZZ	Excision of Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MB43ZZ	Excision of Left Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MB44ZZ	Excision of Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MB50ZZ	Excision of Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MB53ZZ	Excision of Right Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MB54ZZ	Excision of Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MB60ZZ	Excision of Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MB63ZZ	Excision of Left Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MB64ZZ	Excision of Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MB70ZZ	Excision of Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MB73ZZ	Excision of Right Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MB74ZZ	Excision of Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MB80ZZ	Excision of Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MB83ZZ	Excision of Left Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MB84ZZ	Excision of Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MB90ZZ	Excision of Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MB93ZZ	Excision of Right Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MB94ZZ	Excision of Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBB0ZZ	Excision of Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBB3ZZ	Excision of Left Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MBB4ZZ	Excision of Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBC0ZZ	Excision of Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBC3ZZ	Excision of Upper Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBC4ZZ	Excision of Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBD0ZZ	Excision of Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBD3ZZ	Excision of Lower Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBD4ZZ	Excision of Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBF0ZZ	Excision of Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBF3ZZ	Excision of Sternum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBF4ZZ	Excision of Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBG0ZZ	Excision of Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBG3ZZ	Excision of Rib(s) Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBG4ZZ	Excision of Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBH0ZZ	Excision of Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBH3ZZ	Excision of Right Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBH4ZZ	Excision of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBJ0ZZ	Excision of Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBJ3ZZ	Excision of Left Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBJ4ZZ	Excision of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBK0ZZ	Excision of Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBK3ZZ	Excision of Perineum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBK4ZZ	Excision of Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBL0ZZ	Excision of Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBL3ZZ	Excision of Right Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBL4ZZ	Excision of Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBM0ZZ	Excision of Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBM3ZZ	Excision of Left Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBM4ZZ	Excision of Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBN0ZZ	Excision of Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBN3ZZ	Excision of Right Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBN4ZZ	Excision of Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBP0ZZ	Excision of Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBP3ZZ	Excision of Left Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBP4ZZ	Excision of Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBQ0ZZ	Excision of Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBQ3ZZ	Excision of Right Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBQ4ZZ	Excision of Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBR0ZZ	Excision of Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBR3ZZ	Excision of Left Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBR4ZZ	Excision of Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MBS0ZZ	Excision of Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBS3ZZ	Excision of Right Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBS4ZZ	Excision of Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBT0ZZ	Excision of Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBT3ZZ	Excision of Left Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBT4ZZ	Excision of Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBV0ZZ	Excision of Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBV3ZZ	Excision of Right Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBV4ZZ	Excision of Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MBW0ZZ	Excision of Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MBW3ZZ	Excision of Left Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MBW4ZZ	Excision of Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MC00ZZ	Extirpation of Matter from Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MC03ZZ	Extirpation of Matter from Head and Neck Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MC04ZZ	Extirpation of Matter from Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MC10ZZ	Extirpation of Matter from Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MC13ZZ	Extirpation of Matter from Right Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MC14ZZ	Extirpation of Matter from Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MC20ZZ	Extirpation of Matter from Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MC23ZZ	Extirpation of Matter from Left Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MC24ZZ	Extirpation of Matter from Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MC30ZZ	Extirpation of Matter from Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MC33ZZ	Extirpation of Matter from Right Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MC34ZZ	Extirpation of Matter from Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MC40ZZ	Extirpation of Matter from Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MC43ZZ	Extirpation of Matter from Left Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MC44ZZ	Extirpation of Matter from Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MC50ZZ	Extirpation of Matter from Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MC53ZZ	Extirpation of Matter from Right Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MC54ZZ	Extirpation of Matter from Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MC60ZZ	Extirpation of Matter from Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MC63ZZ	Extirpation of Matter from Left Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MC64ZZ	Extirpation of Matter from Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MC70ZZ	Extirpation of Matter from Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MC73ZZ	Extirpation of Matter from Right Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MC74ZZ	Extirpation of Matter from Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MC80ZZ	Extirpation of Matter from Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MC83ZZ	Extirpation of Matter from Left Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MC84ZZ	Extirpation of Matter from Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MC90ZZ	Extirpation of Matter from Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MC93ZZ	Extirpation of Matter from Right Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MC94ZZ	Extirpation of Matter from Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCB0ZZ	Extirpation of Matter from Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCB3ZZ	Extirpation of Matter from Left Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCB4ZZ	Extirpation of Matter from Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCC0ZZ	Extirpation of Matter from Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCC3ZZ	Extirpation of Matter from Upper Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCC4ZZ	Extirpation of Matter from Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCD0ZZ	Extirpation of Matter from Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCD3ZZ	Extirpation of Matter from Lower Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCD4ZZ	Extirpation of Matter from Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCF0ZZ	Extirpation of Matter from Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCF3ZZ	Extirpation of Matter from Sternum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCF4ZZ	Extirpation of Matter from Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCG0ZZ	Extirpation of Matter from Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCG3ZZ	Extirpation of Matter from Rib(s) Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCG4ZZ	Extirpation of Matter from Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MCH0ZZ	Extirpation of Matter from Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCH3ZZ	Extirpation of Matter from Right Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCH4ZZ	Extirpation of Matter from Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCJ0ZZ	Extirpation of Matter from Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCJ3ZZ	Extirpation of Matter from Left Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCJ4ZZ	Extirpation of Matter from Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCK0ZZ	Extirpation of Matter from Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCK3ZZ	Extirpation of Matter from Perineum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCK4ZZ	Extirpation of Matter from Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCL0ZZ	Extirpation of Matter from Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCL3ZZ	Extirpation of Matter from Right Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCL4ZZ	Extirpation of Matter from Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCM0ZZ	Extirpation of Matter from Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCM3ZZ	Extirpation of Matter from Left Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCM4ZZ	Extirpation of Matter from Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCN0ZZ	Extirpation of Matter from Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCN3ZZ	Extirpation of Matter from Right Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCN4ZZ	Extirpation of Matter from Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCP0ZZ	Extirpation of Matter from Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCP3ZZ	Extirpation of Matter from Left Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCP4ZZ	Extirpation of Matter from Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCQ0ZZ	Extirpation of Matter from Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCQ3ZZ	Extirpation of Matter from Right Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCQ4ZZ	Extirpation of Matter from Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCR0ZZ	Extirpation of Matter from Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCR3ZZ	Extirpation of Matter from Left Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCR4ZZ	Extirpation of Matter from Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MCS0ZZ	Extirpation of Matter from Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCS3ZZ	Extirpation of Matter from Right Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCS4ZZ	Extirpation of Matter from Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCT0ZZ	Extirpation of Matter from Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCT3ZZ	Extirpation of Matter from Left Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCT4ZZ	Extirpation of Matter from Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCV0ZZ	Extirpation of Matter from Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCV3ZZ	Extirpation of Matter from Right Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCV4ZZ	Extirpation of Matter from Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MCW0ZZ	Extirpation of Matter from Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MCW3ZZ	Extirpation of Matter from Left Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MCW4ZZ	Extirpation of Matter from Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MD00ZZ	Extraction of Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MD03ZZ	Extraction of Head and Neck Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MD04ZZ	Extraction of Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MD10ZZ	Extraction of Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MD13ZZ	Extraction of Right Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MD14ZZ	Extraction of Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MD20ZZ	Extraction of Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MD23ZZ	Extraction of Left Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MD24ZZ	Extraction of Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MD30ZZ	Extraction of Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MD33ZZ	Extraction of Right Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MD34ZZ	Extraction of Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MD40ZZ	Extraction of Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MD43ZZ	Extraction of Left Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MD44ZZ	Extraction of Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MD50ZZ	Extraction of Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MD53ZZ	Extraction of Right Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MD54ZZ	Extraction of Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MD60ZZ	Extraction of Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MD63ZZ	Extraction of Left Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MD64ZZ	Extraction of Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MD70ZZ	Extraction of Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MD73ZZ	Extraction of Right Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MD74ZZ	Extraction of Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MD80ZZ	Extraction of Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MD83ZZ	Extraction of Left Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MD84ZZ	Extraction of Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MD90ZZ	Extraction of Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MD93ZZ	Extraction of Right Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MD94ZZ	Extraction of Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDB0ZZ	Extraction of Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDB3ZZ	Extraction of Left Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDB4ZZ	Extraction of Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDC0ZZ	Extraction of Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDC3ZZ	Extraction of Upper Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDC4ZZ	Extraction of Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDD0ZZ	Extraction of Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDD3ZZ	Extraction of Lower Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDD4ZZ	Extraction of Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDF0ZZ	Extraction of Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDF3ZZ	Extraction of Sternum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDF4ZZ	Extraction of Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDG0ZZ	Extraction of Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDG3ZZ	Extraction of Rib(s) Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDG4ZZ	Extraction of Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDH0ZZ	Extraction of Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDH3ZZ	Extraction of Right Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDH4ZZ	Extraction of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDJ0ZZ	Extraction of Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDJ3ZZ	Extraction of Left Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDJ4ZZ	Extraction of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDK0ZZ	Extraction of Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MDK3ZZ	Extraction of Perineum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDK4ZZ	Extraction of Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDL0ZZ	Extraction of Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDL3ZZ	Extraction of Right Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDL4ZZ	Extraction of Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDM0ZZ	Extraction of Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDM3ZZ	Extraction of Left Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDM4ZZ	Extraction of Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDN0ZZ	Extraction of Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDN3ZZ	Extraction of Right Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDN4ZZ	Extraction of Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDP0ZZ	Extraction of Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDP3ZZ	Extraction of Left Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDP4ZZ	Extraction of Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDQ0ZZ	Extraction of Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDQ3ZZ	Extraction of Right Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDQ4ZZ	Extraction of Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDR0ZZ	Extraction of Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDR3ZZ	Extraction of Left Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDR4ZZ	Extraction of Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDS0ZZ	Extraction of Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDS3ZZ	Extraction of Right Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDS4ZZ	Extraction of Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDT0ZZ	Extraction of Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDT3ZZ	Extraction of Left Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDT4ZZ	Extraction of Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDV0ZZ	Extraction of Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDV3ZZ	Extraction of Right Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDV4ZZ	Extraction of Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MDW0ZZ	Extraction of Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MDW3ZZ	Extraction of Left Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MDW4ZZ	Extraction of Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MHX0YZ	Insertion of Other Device into Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MHX4YZ	Insertion of Other Device into Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MHY0YZ	Insertion of Other Device into Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MHY4YZ	Insertion of Other Device into Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MM00ZZ	Reattachment of Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MM04ZZ	Reattachment of Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MM10ZZ	Reattachment of Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MM14ZZ	Reattachment of Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MM20ZZ	Reattachment of Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MM24ZZ	Reattachment of Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MM30ZZ	Reattachment of Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MM34ZZ	Reattachment of Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MM40ZZ	Reattachment of Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MM44ZZ	Reattachment of Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MM50ZZ	Reattachment of Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MM54ZZ	Reattachment of Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MM60ZZ	Reattachment of Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MM64ZZ	Reattachment of Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MM70ZZ	Reattachment of Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MM74ZZ	Reattachment of Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MM80ZZ	Reattachment of Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MM84ZZ	Reattachment of Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MM90ZZ	Reattachment of Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MM94ZZ	Reattachment of Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMB0ZZ	Reattachment of Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMB4ZZ	Reattachment of Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMC0ZZ	Reattachment of Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMC4ZZ	Reattachment of Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMD0ZZ	Reattachment of Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMD4ZZ	Reattachment of Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMF0ZZ	Reattachment of Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMF4ZZ	Reattachment of Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMG0ZZ	Reattachment of Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMG4ZZ	Reattachment of Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMH0ZZ	Reattachment of Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MMH4ZZ	Reattachment of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMJ0ZZ	Reattachment of Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMJ4ZZ	Reattachment of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMK0ZZ	Reattachment of Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMK4ZZ	Reattachment of Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MML0ZZ	Reattachment of Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MML4ZZ	Reattachment of Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMM0ZZ	Reattachment of Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMM4ZZ	Reattachment of Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMN0ZZ	Reattachment of Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMN4ZZ	Reattachment of Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMP0ZZ	Reattachment of Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMP4ZZ	Reattachment of Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMQ0ZZ	Reattachment of Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMQ4ZZ	Reattachment of Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMR0ZZ	Reattachment of Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMR4ZZ	Reattachment of Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMS0ZZ	Reattachment of Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMS4ZZ	Reattachment of Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMT0ZZ	Reattachment of Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMT4ZZ	Reattachment of Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMV0ZZ	Reattachment of Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMV4ZZ	Reattachment of Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MMW0ZZ	Reattachment of Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MMW4ZZ	Reattachment of Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MN00ZZ	Release Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MN03ZZ	Release Head and Neck Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MN04ZZ	Release Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MN10ZZ	Release Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MN13ZZ	Release Right Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MN14ZZ	Release Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MN20ZZ	Release Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MN23ZZ	Release Left Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MN24ZZ	Release Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MN30ZZ	Release Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MN33ZZ	Release Right Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MN34ZZ	Release Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MN40ZZ	Release Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MN43ZZ	Release Left Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MN44ZZ	Release Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MN50ZZ	Release Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MN53ZZ	Release Right Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MN54ZZ	Release Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MN60ZZ	Release Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MN63ZZ	Release Left Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MN64ZZ	Release Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MN70ZZ	Release Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MN73ZZ	Release Right Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MN74ZZ	Release Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MN80ZZ	Release Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MN83ZZ	Release Left Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MN84ZZ	Release Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MN90ZZ	Release Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MN93ZZ	Release Right Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MN94ZZ	Release Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNB0ZZ	Release Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNB3ZZ	Release Left Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNB4ZZ	Release Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNC0ZZ	Release Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNC3ZZ	Release Upper Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNC4ZZ	Release Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MND0ZZ	Release Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MND3ZZ	Release Lower Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MND4ZZ	Release Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNF0ZZ	Release Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNF3ZZ	Release Sternum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNF4ZZ	Release Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNG0ZZ	Release Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNG3ZZ	Release Rib(s) Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNG4ZZ	Release Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNH0ZZ	Release Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNH3ZZ	Release Right Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNH4ZZ	Release Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MNJ0ZZ	Release Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNJ3ZZ	Release Left Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNJ4ZZ	Release Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNK0ZZ	Release Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNK3ZZ	Release Perineum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNK4ZZ	Release Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNL0ZZ	Release Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNL3ZZ	Release Right Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNL4ZZ	Release Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNM0ZZ	Release Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNM3ZZ	Release Left Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNM4ZZ	Release Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNN0ZZ	Release Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNN3ZZ	Release Right Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNN4ZZ	Release Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNP0ZZ	Release Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNP3ZZ	Release Left Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNP4ZZ	Release Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNQ0ZZ	Release Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNQ3ZZ	Release Right Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNQ4ZZ	Release Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNR0ZZ	Release Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNR3ZZ	Release Left Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNR4ZZ	Release Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNS0ZZ	Release Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNS3ZZ	Release Right Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNS4ZZ	Release Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNT0ZZ	Release Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNT3ZZ	Release Left Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNT4ZZ	Release Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNV0ZZ	Release Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNV3ZZ	Release Right Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNV4ZZ	Release Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MNW0ZZ	Release Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MNW3ZZ	Release Left Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MNW4ZZ	Release Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MPX00Z	Removal of Drainage Device from Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MPX07Z	Removal of Autologous Tissue Substitute from Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MPX0JZ	Removal of Synthetic Substitute from Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MPX0KZ	Removal of Nonautologous Tissue Substitute from Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MPX0YZ	Removal of Other Device from Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MPX37Z	Removal of Autologous Tissue Substitute from Upper Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MPX3JZ	Removal of Synthetic Substitute from Upper Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MPX3KZ	Removal of Nonautologous Tissue Substitute from Upper Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MPX40Z	Removal of Drainage Device from Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MPX47Z	Removal of Autologous Tissue Substitute from Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MPX4JZ	Removal of Synthetic Substitute from Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MPX4KZ	Removal of Nonautologous Tissue Substitute from Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MPX4YZ	Removal of Other Device from Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MPY00Z	Removal of Drainage Device from Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MPY07Z	Removal of Autologous Tissue Substitute from Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MPY0JZ	Removal of Synthetic Substitute from Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MPY0KZ	Removal of Nonautologous Tissue Substitute from Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MPY0YZ	Removal of Other Device from Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MPY37Z	Removal of Autologous Tissue Substitute from Lower Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MPY3JZ	Removal of Synthetic Substitute from Lower Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MPY3KZ	Removal of Nonautologous Tissue Substitute from Lower Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MPY40Z	Removal of Drainage Device from Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MPY47Z	Removal of Autologous Tissue Substitute from Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MPY4JZ	Removal of Synthetic Substitute from Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MPY4KZ	Removal of Nonautologous Tissue Substitute from Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MPY4YZ	Removal of Other Device from Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQ00ZZ	Repair Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQ03ZZ	Repair Head and Neck Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQ04ZZ	Repair Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQ10ZZ	Repair Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MQ13ZZ	Repair Right Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQ14ZZ	Repair Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQ20ZZ	Repair Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQ23ZZ	Repair Left Shoulder Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQ24ZZ	Repair Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQ30ZZ	Repair Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQ33ZZ	Repair Right Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQ34ZZ	Repair Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQ40ZZ	Repair Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQ43ZZ	Repair Left Elbow Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQ44ZZ	Repair Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQ50ZZ	Repair Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQ53ZZ	Repair Right Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQ54ZZ	Repair Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQ60ZZ	Repair Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQ63ZZ	Repair Left Wrist Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQ64ZZ	Repair Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQ70ZZ	Repair Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQ73ZZ	Repair Right Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQ74ZZ	Repair Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQ80ZZ	Repair Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQ83ZZ	Repair Left Hand Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQ84ZZ	Repair Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQ90ZZ	Repair Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQ93ZZ	Repair Right Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQ94ZZ	Repair Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQB0ZZ	Repair Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQB3ZZ	Repair Left Upper Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQB4ZZ	Repair Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQC0ZZ	Repair Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQC3ZZ	Repair Upper Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQC4ZZ	Repair Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQD0ZZ	Repair Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQD3ZZ	Repair Lower Spine Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQD4ZZ	Repair Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQF0ZZ	Repair Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQF3ZZ	Repair Sternum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQF4ZZ	Repair Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQG0ZZ	Repair Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQG3ZZ	Repair Rib(s) Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQG4ZZ	Repair Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQH0ZZ	Repair Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQH3ZZ	Repair Right Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MQH4ZZ	Repair Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQJ0ZZ	Repair Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQJ3ZZ	Repair Left Abdomen Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQJ4ZZ	Repair Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQK0ZZ	Repair Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQK3ZZ	Repair Perineum Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQK4ZZ	Repair Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQL0ZZ	Repair Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQL3ZZ	Repair Right Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQL4ZZ	Repair Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQM0ZZ	Repair Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQM3ZZ	Repair Left Hip Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQM4ZZ	Repair Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQN0ZZ	Repair Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQN3ZZ	Repair Right Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQN4ZZ	Repair Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQP0ZZ	Repair Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQP3ZZ	Repair Left Knee Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQP4ZZ	Repair Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQQ0ZZ	Repair Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQQ3ZZ	Repair Right Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQQ4ZZ	Repair Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQR0ZZ	Repair Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQR3ZZ	Repair Left Ankle Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQR4ZZ	Repair Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQS0ZZ	Repair Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQS3ZZ	Repair Right Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQS4ZZ	Repair Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQT0ZZ	Repair Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQT3ZZ	Repair Left Foot Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQT4ZZ	Repair Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQV0ZZ	Repair Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQV3ZZ	Repair Right Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQV4ZZ	Repair Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MQW0ZZ	Repair Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MQW3ZZ	Repair Left Lower Extremity Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MQW4ZZ	Repair Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR007Z	Replacement of Head and Neck Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR00JZ	Replacement of Head and Neck Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MR00KZ	Replacement of Head and Neck Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MR047Z	Replacement of Head and Neck Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR04JZ	Replacement of Head and Neck Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR04KZ	Replacement of Head and Neck Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR107Z	Replacement of Right Shoulder Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR10JZ	Replacement of Right Shoulder Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MR10KZ	Replacement of Right Shoulder Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR147Z	Replacement of Right Shoulder Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR14JZ	Replacement of Right Shoulder Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR14KZ	Replacement of Right Shoulder Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR207Z	Replacement of Left Shoulder Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR20JZ	Replacement of Left Shoulder Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MR20KZ	Replacement of Left Shoulder Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR247Z	Replacement of Left Shoulder Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR24JZ	Replacement of Left Shoulder Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR24KZ	Replacement of Left Shoulder Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR307Z	Replacement of Right Elbow Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR30JZ	Replacement of Right Elbow Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MR30KZ	Replacement of Right Elbow Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR347Z	Replacement of Right Elbow Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR34JZ	Replacement of Right Elbow Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR34KZ	Replacement of Right Elbow Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR407Z	Replacement of Left Elbow Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MR40JZ	Replacement of Left Elbow Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MR40KZ	Replacement of Left Elbow Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR447Z	Replacement of Left Elbow Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR44JZ	Replacement of Left Elbow Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR44KZ	Replacement of Left Elbow Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR507Z	Replacement of Right Wrist Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR50JZ	Replacement of Right Wrist Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MR50KZ	Replacement of Right Wrist Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR547Z	Replacement of Right Wrist Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR54JZ	Replacement of Right Wrist Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR54KZ	Replacement of Right Wrist Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR607Z	Replacement of Left Wrist Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR60JZ	Replacement of Left Wrist Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MR60KZ	Replacement of Left Wrist Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR647Z	Replacement of Left Wrist Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR64JZ	Replacement of Left Wrist Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR64KZ	Replacement of Left Wrist Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR707Z	Replacement of Right Hand Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR70JZ	Replacement of Right Hand Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MR70KZ	Replacement of Right Hand Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR747Z	Replacement of Right Hand Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR74JZ	Replacement of Right Hand Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MR74KZ	Replacement of Right Hand Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR807Z	Replacement of Left Hand Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR80JZ	Replacement of Left Hand Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MR80KZ	Replacement of Left Hand Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR847Z	Replacement of Left Hand Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR84JZ	Replacement of Left Hand Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR84KZ	Replacement of Left Hand Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR907Z	Replacement of Right Upper Extremity Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR90JZ	Replacement of Right Upper Extremity Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MR90KZ	Replacement of Right Upper Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MR947Z	Replacement of Right Upper Extremity Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR94JZ	Replacement of Right Upper Extremity Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MR94KZ	Replacement of Right Upper Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRB07Z	Replacement of Left Upper Extremity Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRB0JZ	Replacement of Left Upper Extremity Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRB0KZ	Replacement of Left Upper Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRB47Z	Replacement of Left Upper Extremity Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRB4JZ	Replacement of Left Upper Extremity Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRB4KZ	Replacement of Left Upper Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRC07Z	Replacement of Upper Spine Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRC0JZ	Replacement of Upper Spine Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRC0KZ	Replacement of Upper Spine Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MRC47Z	Replacement of Upper Spine Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRC4JZ	Replacement of Upper Spine Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRC4KZ	Replacement of Upper Spine Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRD07Z	Replacement of Lower Spine Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRD0JZ	Replacement of Lower Spine Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRD0KZ	Replacement of Lower Spine Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRD47Z	Replacement of Lower Spine Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRD4JZ	Replacement of Lower Spine Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRD4KZ	Replacement of Lower Spine Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRF07Z	Replacement of Sternum Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRF0JZ	Replacement of Sternum Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRF0KZ	Replacement of Sternum Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRF47Z	Replacement of Sternum Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRF4JZ	Replacement of Sternum Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRF4KZ	Replacement of Sternum Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRG07Z	Replacement of Rib(s) Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRG0JZ	Replacement of Rib(s) Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRG0KZ	Replacement of Rib(s) Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRG47Z	Replacement of Rib(s) Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRG4JZ	Replacement of Rib(s) Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRG4KZ	Replacement of Rib(s) Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRH07Z	Replacement of Right Abdomen Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MRH0JZ	Replacement of Right Abdomen Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRH0KZ	Replacement of Right Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRH47Z	Replacement of Right Abdomen Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRH4JZ	Replacement of Right Abdomen Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRH4KZ	Replacement of Right Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRJ07Z	Replacement of Left Abdomen Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRJ0JZ	Replacement of Left Abdomen Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRJ0KZ	Replacement of Left Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRJ47Z	Replacement of Left Abdomen Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRJ4JZ	Replacement of Left Abdomen Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRJ4KZ	Replacement of Left Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRK07Z	Replacement of Perineum Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRK0JZ	Replacement of Perineum Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRK0KZ	Replacement of Perineum Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRK47Z	Replacement of Perineum Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRK4JZ	Replacement of Perineum Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRK4KZ	Replacement of Perineum Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRL07Z	Replacement of Right Hip Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRL0JZ	Replacement of Right Hip Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRL0KZ	Replacement of Right Hip Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRL47Z	Replacement of Right Hip Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRL4JZ	Replacement of Right Hip Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MRL4KZ	Replacement of Right Hip Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRM07Z	Replacement of Left Hip Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRM0JZ	Replacement of Left Hip Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRM0KZ	Replacement of Left Hip Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRM47Z	Replacement of Left Hip Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRM4JZ	Replacement of Left Hip Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRM4KZ	Replacement of Left Hip Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRN07Z	Replacement of Right Knee Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRN0JZ	Replacement of Right Knee Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRN0KZ	Replacement of Right Knee Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRN47Z	Replacement of Right Knee Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRN4JZ	Replacement of Right Knee Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRN4KZ	Replacement of Right Knee Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRP07Z	Replacement of Left Knee Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRP0JZ	Replacement of Left Knee Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRP0KZ	Replacement of Left Knee Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRP47Z	Replacement of Left Knee Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRP4JZ	Replacement of Left Knee Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRP4KZ	Replacement of Left Knee Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRQ07Z	Replacement of Right Ankle Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRQ0JZ	Replacement of Right Ankle Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRQ0KZ	Replacement of Right Ankle Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MRQ47Z	Replacement of Right Ankle Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRQ4JZ	Replacement of Right Ankle Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRQ4KZ	Replacement of Right Ankle Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRR07Z	Replacement of Left Ankle Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRR0JZ	Replacement of Left Ankle Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRR0KZ	Replacement of Left Ankle Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRR47Z	Replacement of Left Ankle Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRR4JZ	Replacement of Left Ankle Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRR4KZ	Replacement of Left Ankle Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRS07Z	Replacement of Right Foot Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRS0JZ	Replacement of Right Foot Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRS0KZ	Replacement of Right Foot Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRS47Z	Replacement of Right Foot Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRS4JZ	Replacement of Right Foot Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRS4KZ	Replacement of Right Foot Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRT07Z	Replacement of Left Foot Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRT0JZ	Replacement of Left Foot Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRT0KZ	Replacement of Left Foot Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRT47Z	Replacement of Left Foot Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRT4JZ	Replacement of Left Foot Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRT4KZ	Replacement of Left Foot Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRV07Z	Replacement of Right Lower Extremity Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MRV0JZ	Replacement of Right Lower Extremity Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRV0KZ	Replacement of Right Lower Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRV47Z	Replacement of Right Lower Extremity Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRV4JZ	Replacement of Right Lower Extremity Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRV4KZ	Replacement of Right Lower Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRW07Z	Replacement of Left Lower Extremity Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRW0JZ	Replacement of Left Lower Extremity Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MRW0KZ	Replacement of Left Lower Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MRW47Z	Replacement of Left Lower Extremity Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRW4JZ	Replacement of Left Lower Extremity Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MRW4KZ	Replacement of Left Lower Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MS00ZZ	Reposition Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MS04ZZ	Reposition Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MS10ZZ	Reposition Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MS14ZZ	Reposition Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MS20ZZ	Reposition Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MS24ZZ	Reposition Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MS30ZZ	Reposition Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MS34ZZ	Reposition Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MS40ZZ	Reposition Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MS44ZZ	Reposition Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MS50ZZ	Reposition Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MS54ZZ	Reposition Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MS60ZZ	Reposition Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MS64ZZ	Reposition Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MS70ZZ	Reposition Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MS74ZZ	Reposition Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MS80ZZ	Reposition Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MS84ZZ	Reposition Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MS90ZZ	Reposition Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MS94ZZ	Reposition Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSB0ZZ	Reposition Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSB4ZZ	Reposition Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSC0ZZ	Reposition Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSC4ZZ	Reposition Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSD0ZZ	Reposition Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSD4ZZ	Reposition Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSF0ZZ	Reposition Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSF4ZZ	Reposition Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSG0ZZ	Reposition Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSG4ZZ	Reposition Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSH0ZZ	Reposition Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSH4ZZ	Reposition Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSJ0ZZ	Reposition Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSJ4ZZ	Reposition Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSK0ZZ	Reposition Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSK4ZZ	Reposition Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSL0ZZ	Reposition Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSL4ZZ	Reposition Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSM0ZZ	Reposition Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSM4ZZ	Reposition Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSN0ZZ	Reposition Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSN4ZZ	Reposition Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSP0ZZ	Reposition Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSP4ZZ	Reposition Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSQ0ZZ	Reposition Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSQ4ZZ	Reposition Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSR0ZZ	Reposition Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSR4ZZ	Reposition Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSS0ZZ	Reposition Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSS4ZZ	Reposition Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MST0ZZ	Reposition Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MST4ZZ	Reposition Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSV0ZZ	Reposition Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSV4ZZ	Reposition Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MSW0ZZ	Reposition Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MSW4ZZ	Reposition Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MT00ZZ	Resection of Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MT04ZZ	Resection of Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MT10ZZ	Resection of Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MT14ZZ	Resection of Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MT20ZZ	Resection of Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MT24ZZ	Resection of Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MT30ZZ	Resection of Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MT34ZZ	Resection of Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MT40ZZ	Resection of Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MT44ZZ	Resection of Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MT50ZZ	Resection of Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MT54ZZ	Resection of Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MT60ZZ	Resection of Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MT64ZZ	Resection of Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MT70ZZ	Resection of Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MT74ZZ	Resection of Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MT80ZZ	Resection of Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MT84ZZ	Resection of Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MT90ZZ	Resection of Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MT94ZZ	Resection of Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTB0ZZ	Resection of Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTB4ZZ	Resection of Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTC0ZZ	Resection of Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTC4ZZ	Resection of Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTD0ZZ	Resection of Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTD4ZZ	Resection of Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTF0ZZ	Resection of Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTF4ZZ	Resection of Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTG0ZZ	Resection of Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTG4ZZ	Resection of Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTH0ZZ	Resection of Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTH4ZZ	Resection of Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTJ0ZZ	Resection of Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MTJ4ZZ	Resection of Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTK0ZZ	Resection of Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTK4ZZ	Resection of Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTL0ZZ	Resection of Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTL4ZZ	Resection of Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTM0ZZ	Resection of Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTM4ZZ	Resection of Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTN0ZZ	Resection of Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTN4ZZ	Resection of Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTP0ZZ	Resection of Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTP4ZZ	Resection of Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTQ0ZZ	Resection of Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTQ4ZZ	Resection of Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTR0ZZ	Resection of Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTR4ZZ	Resection of Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTS0ZZ	Resection of Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTS4ZZ	Resection of Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTT0ZZ	Resection of Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTT4ZZ	Resection of Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTV0ZZ	Resection of Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTV4ZZ	Resection of Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MTW0ZZ	Resection of Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MTW4ZZ	Resection of Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU007Z	Supplement Head and Neck Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU00JZ	Supplement Head and Neck Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MU00KZ	Supplement Head and Neck Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU047Z	Supplement Head and Neck Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU04JZ	Supplement Head and Neck Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU04KZ	Supplement Head and Neck Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU107Z	Supplement Right Shoulder Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU10JZ	Supplement Right Shoulder Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MU10KZ	Supplement Right Shoulder Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU147Z	Supplement Right Shoulder Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU14JZ	Supplement Right Shoulder Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU14KZ	Supplement Right Shoulder Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU207Z	Supplement Left Shoulder Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU20JZ	Supplement Left Shoulder Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MU20KZ	Supplement Left Shoulder Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU247Z	Supplement Left Shoulder Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU24JZ	Supplement Left Shoulder Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU24KZ	Supplement Left Shoulder Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU307Z	Supplement Right Elbow Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU30JZ	Supplement Right Elbow Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MU30KZ	Supplement Right Elbow Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU347Z	Supplement Right Elbow Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU34JZ	Supplement Right Elbow Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU34KZ	Supplement Right Elbow Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU407Z	Supplement Left Elbow Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU40JZ	Supplement Left Elbow Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MU40KZ	Supplement Left Elbow Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU447Z	Supplement Left Elbow Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU44JZ	Supplement Left Elbow Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU44KZ	Supplement Left Elbow Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MU507Z	Supplement Right Wrist Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU50JZ	Supplement Right Wrist Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MU50KZ	Supplement Right Wrist Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU547Z	Supplement Right Wrist Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU54JZ	Supplement Right Wrist Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU54KZ	Supplement Right Wrist Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU607Z	Supplement Left Wrist Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU60JZ	Supplement Left Wrist Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MU60KZ	Supplement Left Wrist Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU647Z	Supplement Left Wrist Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU64JZ	Supplement Left Wrist Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU64KZ	Supplement Left Wrist Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU707Z	Supplement Right Hand Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU70JZ	Supplement Right Hand Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MU70KZ	Supplement Right Hand Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU747Z	Supplement Right Hand Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU74JZ	Supplement Right Hand Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU74KZ	Supplement Right Hand Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU807Z	Supplement Left Hand Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU80JZ	Supplement Left Hand Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MU80KZ	Supplement Left Hand Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU847Z	Supplement Left Hand Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MU84JZ	Supplement Left Hand Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU84KZ	Supplement Left Hand Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU907Z	Supplement Right Upper Extremity Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU90JZ	Supplement Right Upper Extremity Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MU90KZ	Supplement Right Upper Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MU947Z	Supplement Right Upper Extremity Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU94JZ	Supplement Right Upper Extremity Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MU94KZ	Supplement Right Upper Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUB07Z	Supplement Left Upper Extremity Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUB0JZ	Supplement Left Upper Extremity Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUB0KZ	Supplement Left Upper Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUB47Z	Supplement Left Upper Extremity Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUB4JZ	Supplement Left Upper Extremity Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUB4KZ	Supplement Left Upper Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUC07Z	Supplement Upper Spine Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUC0JZ	Supplement Upper Spine Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUC0KZ	Supplement Upper Spine Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUC47Z	Supplement Upper Spine Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUC4JZ	Supplement Upper Spine Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUC4KZ	Supplement Upper Spine Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUD07Z	Supplement Lower Spine Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUD0JZ	Supplement Lower Spine Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MUD0KZ	Supplement Lower Spine Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUD47Z	Supplement Lower Spine Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUD4JZ	Supplement Lower Spine Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUD4KZ	Supplement Lower Spine Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUF07Z	Supplement Sternum Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUF0JZ	Supplement Sternum Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUF0KZ	Supplement Sternum Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUF47Z	Supplement Sternum Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUF4JZ	Supplement Sternum Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUF4KZ	Supplement Sternum Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUG07Z	Supplement Rib(s) Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUG0JZ	Supplement Rib(s) Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUG0KZ	Supplement Rib(s) Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUG47Z	Supplement Rib(s) Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUG4JZ	Supplement Rib(s) Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUG4KZ	Supplement Rib(s) Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUH07Z	Supplement Right Abdomen Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUH0JZ	Supplement Right Abdomen Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUH0KZ	Supplement Right Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUH47Z	Supplement Right Abdomen Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUH4JZ	Supplement Right Abdomen Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUH4KZ	Supplement Right Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MUJ07Z	Supplement Left Abdomen Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUJ0JZ	Supplement Left Abdomen Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUJ0KZ	Supplement Left Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUJ47Z	Supplement Left Abdomen Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUJ4JZ	Supplement Left Abdomen Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUJ4KZ	Supplement Left Abdomen Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUK07Z	Supplement Perineum Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUK0JZ	Supplement Perineum Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUK0KZ	Supplement Perineum Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUK47Z	Supplement Perineum Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUK4JZ	Supplement Perineum Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUK4KZ	Supplement Perineum Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUL07Z	Supplement Right Hip Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUL0JZ	Supplement Right Hip Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUL0KZ	Supplement Right Hip Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUL47Z	Supplement Right Hip Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUL4JZ	Supplement Right Hip Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUL4KZ	Supplement Right Hip Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUM07Z	Supplement Left Hip Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUM0JZ	Supplement Left Hip Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUM0KZ	Supplement Left Hip Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUM47Z	Supplement Left Hip Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MUM4JZ	Supplement Left Hip Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUM4KZ	Supplement Left Hip Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUN07Z	Supplement Right Knee Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUN0JZ	Supplement Right Knee Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUN0KZ	Supplement Right Knee Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUN47Z	Supplement Right Knee Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUN4JZ	Supplement Right Knee Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUN4KZ	Supplement Right Knee Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUP07Z	Supplement Left Knee Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUP0JZ	Supplement Left Knee Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUP0KZ	Supplement Left Knee Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUP47Z	Supplement Left Knee Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUP4JZ	Supplement Left Knee Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUP4KZ	Supplement Left Knee Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUQ07Z	Supplement Right Ankle Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUQ0JZ	Supplement Right Ankle Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUQ0KZ	Supplement Right Ankle Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUQ47Z	Supplement Right Ankle Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUQ4JZ	Supplement Right Ankle Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUQ4KZ	Supplement Right Ankle Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUR07Z	Supplement Left Ankle Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUR0JZ	Supplement Left Ankle Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MUR0KZ	Supplement Left Ankle Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUR47Z	Supplement Left Ankle Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUR4JZ	Supplement Left Ankle Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUR4KZ	Supplement Left Ankle Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUS07Z	Supplement Right Foot Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUS0JZ	Supplement Right Foot Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUS0KZ	Supplement Right Foot Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUS47Z	Supplement Right Foot Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUS4JZ	Supplement Right Foot Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUS4KZ	Supplement Right Foot Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUT07Z	Supplement Left Foot Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUT0JZ	Supplement Left Foot Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUT0KZ	Supplement Left Foot Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUT47Z	Supplement Left Foot Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUT4JZ	Supplement Left Foot Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUT4KZ	Supplement Left Foot Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUV07Z	Supplement Right Lower Extremity Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUV0JZ	Supplement Right Lower Extremity Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUV0KZ	Supplement Right Lower Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUV47Z	Supplement Right Lower Extremity Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUV4JZ	Supplement Right Lower Extremity Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUV4KZ	Supplement Right Lower Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MUW07Z	Supplement Left Lower Extremity Bursa and Ligament with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUW0JZ	Supplement Left Lower Extremity Bursa and Ligament with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0MUW0KZ	Supplement Left Lower Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0MUW47Z	Supplement Left Lower Extremity Bursa and Ligament with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUW4JZ	Supplement Left Lower Extremity Bursa and Ligament with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MUW4KZ	Supplement Left Lower Extremity Bursa and Ligament with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MWX00Z	Revision of Drainage Device in Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MWX07Z	Revision of Autologous Tissue Substitute in Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MWX0JZ	Revision of Synthetic Substitute in Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MWX0KZ	Revision of Nonautologous Tissue Substitute in Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MWX0YZ	Revision of Other Device in Upper Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MWX30Z	Revision of Drainage Device in Upper Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MWX37Z	Revision of Autologous Tissue Substitute in Upper Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MWX3JZ	Revision of Synthetic Substitute in Upper Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MWX3KZ	Revision of Nonautologous Tissue Substitute in Upper Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MWX40Z	Revision of Drainage Device in Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MWX47Z	Revision of Autologous Tissue Substitute in Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MWX4JZ	Revision of Synthetic Substitute in Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MWX4KZ	Revision of Nonautologous Tissue Substitute in Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MWX4YZ	Revision of Other Device in Upper Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MWY00Z	Revision of Drainage Device in Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MWY07Z	Revision of Autologous Tissue Substitute in Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MWY0JZ	Revision of Synthetic Substitute in Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MWY0KZ	Revision of Nonautologous Tissue Substitute in Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MWY0YZ	Revision of Other Device in Lower Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MWY30Z	Revision of Drainage Device in Lower Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MWY37Z	Revision of Autologous Tissue Substitute in Lower Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MWY3JZ	Revision of Synthetic Substitute in Lower Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MWY3KZ	Revision of Nonautologous Tissue Substitute in Lower Bursa and Ligament, Percutaneous Approach	PX	ICD-10-PCS
0MWY40Z	Revision of Drainage Device in Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MWY47Z	Revision of Autologous Tissue Substitute in Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MWY4JZ	Revision of Synthetic Substitute in Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MWY4KZ	Revision of Nonautologous Tissue Substitute in Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MWY4YZ	Revision of Other Device in Lower Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MX00ZZ	Transfer Head and Neck Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MX04ZZ	Transfer Head and Neck Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MX10ZZ	Transfer Right Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MX14ZZ	Transfer Right Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MX20ZZ	Transfer Left Shoulder Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MX24ZZ	Transfer Left Shoulder Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MX30ZZ	Transfer Right Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MX34ZZ	Transfer Right Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MX40ZZ	Transfer Left Elbow Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MX44ZZ	Transfer Left Elbow Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MX50ZZ	Transfer Right Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MX54ZZ	Transfer Right Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MX60ZZ	Transfer Left Wrist Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MX64ZZ	Transfer Left Wrist Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MX70ZZ	Transfer Right Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MX74ZZ	Transfer Right Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MX80ZZ	Transfer Left Hand Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MX84ZZ	Transfer Left Hand Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MX90ZZ	Transfer Right Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MX94ZZ	Transfer Right Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXB0ZZ	Transfer Left Upper Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXB4ZZ	Transfer Left Upper Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXC0ZZ	Transfer Upper Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0MXC4ZZ	Transfer Upper Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXD0ZZ	Transfer Lower Spine Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXD4ZZ	Transfer Lower Spine Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXF0ZZ	Transfer Sternum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXF4ZZ	Transfer Sternum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXG0ZZ	Transfer Rib(s) Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXG4ZZ	Transfer Rib(s) Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXH0ZZ	Transfer Right Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXH4ZZ	Transfer Right Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXJ0ZZ	Transfer Left Abdomen Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXJ4ZZ	Transfer Left Abdomen Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXK0ZZ	Transfer Perineum Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXK4ZZ	Transfer Perineum Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXL0ZZ	Transfer Right Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXL4ZZ	Transfer Right Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXM0ZZ	Transfer Left Hip Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXM4ZZ	Transfer Left Hip Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXN0ZZ	Transfer Right Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXN4ZZ	Transfer Right Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXP0ZZ	Transfer Left Knee Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXP4ZZ	Transfer Left Knee Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXQ0ZZ	Transfer Right Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXQ4ZZ	Transfer Right Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXR0ZZ	Transfer Left Ankle Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXR4ZZ	Transfer Left Ankle Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXS0ZZ	Transfer Right Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXS4ZZ	Transfer Right Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXT0ZZ	Transfer Left Foot Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXT4ZZ	Transfer Left Foot Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXV0ZZ	Transfer Right Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXV4ZZ	Transfer Right Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0MXW0ZZ	Transfer Left Lower Extremity Bursa and Ligament, Open Approach	PX	ICD-10-PCS
0MXW4ZZ	Transfer Left Lower Extremity Bursa and Ligament, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N500ZZ	Destruction of Skull, Open Approach	PX	ICD-10-PCS
0N503ZZ	Destruction of Skull, Percutaneous Approach	PX	ICD-10-PCS
0N504ZZ	Destruction of Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N510ZZ	Destruction of Frontal Bone, Open Approach	PX	ICD-10-PCS
0N513ZZ	Destruction of Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N514ZZ	Destruction of Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N520ZZ	Destruction of Left Frontal Bone, Open Approach	PX	ICD-10-PCS
0N523ZZ	Destruction of Left Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N524ZZ	Destruction of Left Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0N530ZZ	Destruction of Right Parietal Bone, Open Approach	PX	ICD-10-PCS
0N533ZZ	Destruction of Right Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N534ZZ	Destruction of Right Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N540ZZ	Destruction of Left Parietal Bone, Open Approach	PX	ICD-10-PCS
0N543ZZ	Destruction of Left Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N544ZZ	Destruction of Left Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N550ZZ	Destruction of Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0N553ZZ	Destruction of Right Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N554ZZ	Destruction of Right Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N560ZZ	Destruction of Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0N563ZZ	Destruction of Left Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N564ZZ	Destruction of Left Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N570ZZ	Destruction of Occipital Bone, Open Approach	PX	ICD-10-PCS
0N573ZZ	Destruction of Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0N574ZZ	Destruction of Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N580ZZ	Destruction of Left Occipital Bone, Open Approach	PX	ICD-10-PCS
0N583ZZ	Destruction of Left Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0N584ZZ	Destruction of Left Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5B0ZZ	Destruction of Nasal Bone, Open Approach	PX	ICD-10-PCS
0N5B3ZZ	Destruction of Nasal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5B4ZZ	Destruction of Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5C0ZZ	Destruction of Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0N5C3ZZ	Destruction of Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5C4ZZ	Destruction of Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5D0ZZ	Destruction of Left Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0N5D3ZZ	Destruction of Left Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5D4ZZ	Destruction of Left Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5F0ZZ	Destruction of Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0N5F3ZZ	Destruction of Right Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5F4ZZ	Destruction of Right Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5G0ZZ	Destruction of Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0N5G3ZZ	Destruction of Left Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5G4ZZ	Destruction of Left Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5H0ZZ	Destruction of Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0N5H3ZZ	Destruction of Right Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5H4ZZ	Destruction of Right Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5J0ZZ	Destruction of Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0N5J3ZZ	Destruction of Left Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5J4ZZ	Destruction of Left Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5K0ZZ	Destruction of Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0N5K3ZZ	Destruction of Right Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5K4ZZ	Destruction of Right Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5L0ZZ	Destruction of Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0N5L3ZZ	Destruction of Left Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5L4ZZ	Destruction of Left Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0N5M0ZZ	Destruction of Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0N5M3ZZ	Destruction of Right Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5M4ZZ	Destruction of Right Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5N0ZZ	Destruction of Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0N5N3ZZ	Destruction of Left Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5N4ZZ	Destruction of Left Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5P0ZZ	Destruction of Right Orbit, Open Approach	PX	ICD-10-PCS
0N5P3ZZ	Destruction of Right Orbit, Percutaneous Approach	PX	ICD-10-PCS
0N5P4ZZ	Destruction of Right Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5Q0ZZ	Destruction of Left Orbit, Open Approach	PX	ICD-10-PCS
0N5Q3ZZ	Destruction of Left Orbit, Percutaneous Approach	PX	ICD-10-PCS
0N5Q4ZZ	Destruction of Left Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5R0ZZ	Destruction of Maxilla, Open Approach	PX	ICD-10-PCS
0N5R3ZZ	Destruction of Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0N5R4ZZ	Destruction of Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5S0ZZ	Destruction of Left Maxilla, Open Approach	PX	ICD-10-PCS
0N5S3ZZ	Destruction of Left Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0N5S4ZZ	Destruction of Left Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5T0ZZ	Destruction of Right Mandible, Open Approach	PX	ICD-10-PCS
0N5T3ZZ	Destruction of Right Mandible, Percutaneous Approach	PX	ICD-10-PCS
0N5T4ZZ	Destruction of Right Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5V0ZZ	Destruction of Left Mandible, Open Approach	PX	ICD-10-PCS
0N5V3ZZ	Destruction of Left Mandible, Percutaneous Approach	PX	ICD-10-PCS
0N5V4ZZ	Destruction of Left Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N5X0ZZ	Destruction of Hyoid Bone, Open Approach	PX	ICD-10-PCS
0N5X3ZZ	Destruction of Hyoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0N5X4ZZ	Destruction of Hyoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N800ZZ	Division of Skull, Open Approach	PX	ICD-10-PCS
0N803ZZ	Division of Skull, Percutaneous Approach	PX	ICD-10-PCS
0N804ZZ	Division of Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N810ZZ	Division of Frontal Bone, Open Approach	PX	ICD-10-PCS
0N813ZZ	Division of Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N814ZZ	Division of Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N820ZZ	Division of Left Frontal Bone, Open Approach	PX	ICD-10-PCS
0N823ZZ	Division of Left Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N824ZZ	Division of Left Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N830ZZ	Division of Right Parietal Bone, Open Approach	PX	ICD-10-PCS
0N833ZZ	Division of Right Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N834ZZ	Division of Right Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N840ZZ	Division of Left Parietal Bone, Open Approach	PX	ICD-10-PCS
0N843ZZ	Division of Left Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N844ZZ	Division of Left Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N850ZZ	Division of Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0N853ZZ	Division of Right Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N854ZZ	Division of Right Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0N860ZZ	Division of Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0N863ZZ	Division of Left Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N864ZZ	Division of Left Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N870ZZ	Division of Occipital Bone, Open Approach	PX	ICD-10-PCS
0N873ZZ	Division of Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0N874ZZ	Division of Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N880ZZ	Division of Left Occipital Bone, Open Approach	PX	ICD-10-PCS
0N883ZZ	Division of Left Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0N884ZZ	Division of Left Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8B0ZZ	Division of Nasal Bone, Open Approach	PX	ICD-10-PCS
0N8B4ZZ	Division of Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8C0ZZ	Division of Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0N8C3ZZ	Division of Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8C4ZZ	Division of Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8D0ZZ	Division of Left Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0N8D3ZZ	Division of Left Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8D4ZZ	Division of Left Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8F0ZZ	Division of Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0N8F3ZZ	Division of Right Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8F4ZZ	Division of Right Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8G0ZZ	Division of Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0N8G3ZZ	Division of Left Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8G4ZZ	Division of Left Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8H0ZZ	Division of Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0N8H3ZZ	Division of Right Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8H4ZZ	Division of Right Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8J0ZZ	Division of Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0N8J3ZZ	Division of Left Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8J4ZZ	Division of Left Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8K0ZZ	Division of Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0N8K3ZZ	Division of Right Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8K4ZZ	Division of Right Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8L0ZZ	Division of Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0N8L3ZZ	Division of Left Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8L4ZZ	Division of Left Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8M0ZZ	Division of Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0N8M3ZZ	Division of Right Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8M4ZZ	Division of Right Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8N0ZZ	Division of Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0N8N3ZZ	Division of Left Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8N4ZZ	Division of Left Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8P0ZZ	Division of Right Orbit, Open Approach	PX	ICD-10-PCS
0N8P3ZZ	Division of Right Orbit, Percutaneous Approach	PX	ICD-10-PCS
0N8P4ZZ	Division of Right Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8Q0ZZ	Division of Left Orbit, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0N8Q3ZZ	Division of Left Orbit, Percutaneous Approach	PX	ICD-10-PCS
0N8Q4ZZ	Division of Left Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8R0ZZ	Division of Maxilla, Open Approach	PX	ICD-10-PCS
0N8R3ZZ	Division of Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0N8R4ZZ	Division of Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8S0ZZ	Division of Left Maxilla, Open Approach	PX	ICD-10-PCS
0N8S3ZZ	Division of Left Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0N8S4ZZ	Division of Left Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8T0ZZ	Division of Right Mandible, Open Approach	PX	ICD-10-PCS
0N8T3ZZ	Division of Right Mandible, Percutaneous Approach	PX	ICD-10-PCS
0N8T4ZZ	Division of Right Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8V0ZZ	Division of Left Mandible, Open Approach	PX	ICD-10-PCS
0N8V3ZZ	Division of Left Mandible, Percutaneous Approach	PX	ICD-10-PCS
0N8V4ZZ	Division of Left Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N8X0ZZ	Division of Hyoid Bone, Open Approach	PX	ICD-10-PCS
0N8X3ZZ	Division of Hyoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0N8X4ZZ	Division of Hyoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9000Z	Drainage of Skull with Drainage Device, Open Approach	PX	ICD-10-PCS
0N900ZZ	Drainage of Skull, Open Approach	PX	ICD-10-PCS
0N9040Z	Drainage of Skull with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N904ZZ	Drainage of Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9100Z	Drainage of Frontal Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N910ZZ	Drainage of Frontal Bone, Open Approach	PX	ICD-10-PCS
0N9140Z	Drainage of Frontal Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N914ZZ	Drainage of Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9200Z	Drainage of Left Frontal Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N920ZZ	Drainage of Left Frontal Bone, Open Approach	PX	ICD-10-PCS
0N9240Z	Drainage of Left Frontal Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N924ZZ	Drainage of Left Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9300Z	Drainage of Right Parietal Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N930ZZ	Drainage of Right Parietal Bone, Open Approach	PX	ICD-10-PCS
0N9340Z	Drainage of Right Parietal Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N934ZZ	Drainage of Right Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9400Z	Drainage of Left Parietal Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N940ZZ	Drainage of Left Parietal Bone, Open Approach	PX	ICD-10-PCS
0N9440Z	Drainage of Left Parietal Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N944ZZ	Drainage of Left Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9500Z	Drainage of Right Temporal Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N950ZZ	Drainage of Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0N9540Z	Drainage of Right Temporal Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0N954ZZ	Drainage of Right Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9600Z	Drainage of Left Temporal Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N960ZZ	Drainage of Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0N9640Z	Drainage of Left Temporal Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N964ZZ	Drainage of Left Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9700Z	Drainage of Occipital Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N970ZZ	Drainage of Occipital Bone, Open Approach	PX	ICD-10-PCS
0N9740Z	Drainage of Occipital Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N974ZZ	Drainage of Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9800Z	Drainage of Left Occipital Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N980ZZ	Drainage of Left Occipital Bone, Open Approach	PX	ICD-10-PCS
0N9840Z	Drainage of Left Occipital Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N984ZZ	Drainage of Left Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9B00Z	Drainage of Nasal Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9B0ZZ	Drainage of Nasal Bone, Open Approach	PX	ICD-10-PCS
0N9B40Z	Drainage of Nasal Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9B4ZZ	Drainage of Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9C00Z	Drainage of Sphenoid Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9C0ZZ	Drainage of Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0N9C40Z	Drainage of Sphenoid Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9C4ZZ	Drainage of Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9D00Z	Drainage of Left Sphenoid Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9D0ZZ	Drainage of Left Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0N9D40Z	Drainage of Left Sphenoid Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9D4ZZ	Drainage of Left Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9F00Z	Drainage of Right Ethmoid Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9F0ZZ	Drainage of Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0N9F40Z	Drainage of Right Ethmoid Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9F4ZZ	Drainage of Right Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9G00Z	Drainage of Left Ethmoid Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9G0ZZ	Drainage of Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0N9G40Z	Drainage of Left Ethmoid Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9G4ZZ	Drainage of Left Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9H00Z	Drainage of Right Lacrimal Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9H0ZZ	Drainage of Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0N9H40Z	Drainage of Right Lacrimal Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0N9H4ZZ	Drainage of Right Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9J00Z	Drainage of Left Lacrimal Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9J0ZZ	Drainage of Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0N9J40Z	Drainage of Left Lacrimal Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9J4ZZ	Drainage of Left Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9K00Z	Drainage of Right Palatine Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9K0ZZ	Drainage of Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0N9K40Z	Drainage of Right Palatine Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9K4ZZ	Drainage of Right Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9L00Z	Drainage of Left Palatine Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9L0ZZ	Drainage of Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0N9L40Z	Drainage of Left Palatine Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9L4ZZ	Drainage of Left Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9M00Z	Drainage of Right Zygomatic Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9M0ZZ	Drainage of Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0N9M40Z	Drainage of Right Zygomatic Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9M4ZZ	Drainage of Right Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9N00Z	Drainage of Left Zygomatic Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9N0ZZ	Drainage of Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0N9N40Z	Drainage of Left Zygomatic Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9N4ZZ	Drainage of Left Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9P00Z	Drainage of Right Orbit with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9P0ZZ	Drainage of Right Orbit, Open Approach	PX	ICD-10-PCS
0N9P40Z	Drainage of Right Orbit with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9P4ZZ	Drainage of Right Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9Q00Z	Drainage of Left Orbit with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9Q0ZZ	Drainage of Left Orbit, Open Approach	PX	ICD-10-PCS
0N9Q40Z	Drainage of Left Orbit with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9Q4ZZ	Drainage of Left Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9R00Z	Drainage of Maxilla with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9R0ZZ	Drainage of Maxilla, Open Approach	PX	ICD-10-PCS
0N9R40Z	Drainage of Maxilla with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9R4ZZ	Drainage of Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9T00Z	Drainage of Right Mandible with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9T0ZZ	Drainage of Right Mandible, Open Approach	PX	ICD-10-PCS
0N9T40Z	Drainage of Right Mandible with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9T4ZZ	Drainage of Right Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9V00Z	Drainage of Left Mandible with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0N9V0ZZ	Drainage of Left Mandible, Open Approach	PX	ICD-10-PCS
0N9V40Z	Drainage of Left Mandible with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9V4ZZ	Drainage of Left Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9X00Z	Drainage of Hyoid Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0N9X0ZZ	Drainage of Hyoid Bone, Open Approach	PX	ICD-10-PCS
0N9X40Z	Drainage of Hyoid Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0N9X4ZZ	Drainage of Hyoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NB00ZZ	Excision of Skull, Open Approach	PX	ICD-10-PCS
0NB03ZZ	Excision of Skull, Percutaneous Approach	PX	ICD-10-PCS
0NB04ZZ	Excision of Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NB10ZZ	Excision of Frontal Bone, Open Approach	PX	ICD-10-PCS
0NB13ZZ	Excision of Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NB14ZZ	Excision of Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NB20ZZ	Excision of Left Frontal Bone, Open Approach	PX	ICD-10-PCS
0NB23ZZ	Excision of Left Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NB24ZZ	Excision of Left Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NB30ZZ	Excision of Right Parietal Bone, Open Approach	PX	ICD-10-PCS
0NB33ZZ	Excision of Right Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NB34ZZ	Excision of Right Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NB40ZZ	Excision of Left Parietal Bone, Open Approach	PX	ICD-10-PCS
0NB43ZZ	Excision of Left Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NB44ZZ	Excision of Left Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NB50ZZ	Excision of Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0NB53ZZ	Excision of Right Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NB54ZZ	Excision of Right Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NB60ZZ	Excision of Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0NB63ZZ	Excision of Left Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NB64ZZ	Excision of Left Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NB70ZZ	Excision of Occipital Bone, Open Approach	PX	ICD-10-PCS
0NB73ZZ	Excision of Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NB74ZZ	Excision of Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NB80ZZ	Excision of Left Occipital Bone, Open Approach	PX	ICD-10-PCS
0NB83ZZ	Excision of Left Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NB84ZZ	Excision of Left Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBB0ZZ	Excision of Nasal Bone, Open Approach	PX	ICD-10-PCS
0NBB3ZZ	Excision of Nasal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBB4ZZ	Excision of Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBC0ZZ	Excision of Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NBC3ZZ	Excision of Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBC4ZZ	Excision of Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBD0ZZ	Excision of Left Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NBD3ZZ	Excision of Left Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBD4ZZ	Excision of Left Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NBF0ZZ	Excision of Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NBF3ZZ	Excision of Right Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBF4ZZ	Excision of Right Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBG0ZZ	Excision of Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NBG3ZZ	Excision of Left Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBG4ZZ	Excision of Left Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBH0ZZ	Excision of Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NBH3ZZ	Excision of Right Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBH4ZZ	Excision of Right Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBJ0ZZ	Excision of Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NBJ3ZZ	Excision of Left Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBJ4ZZ	Excision of Left Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBK0ZZ	Excision of Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0NBK3ZZ	Excision of Right Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBK4ZZ	Excision of Right Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBL0ZZ	Excision of Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0NBL3ZZ	Excision of Left Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBL4ZZ	Excision of Left Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBM0ZZ	Excision of Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NBM3ZZ	Excision of Right Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBM4ZZ	Excision of Right Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBN0ZZ	Excision of Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NBN3ZZ	Excision of Left Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBN4ZZ	Excision of Left Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBP0ZZ	Excision of Right Orbit, Open Approach	PX	ICD-10-PCS
0NBP3ZZ	Excision of Right Orbit, Percutaneous Approach	PX	ICD-10-PCS
0NBP4ZZ	Excision of Right Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBQ0ZZ	Excision of Left Orbit, Open Approach	PX	ICD-10-PCS
0NBQ3ZZ	Excision of Left Orbit, Percutaneous Approach	PX	ICD-10-PCS
0NBQ4ZZ	Excision of Left Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBR0ZZ	Excision of Maxilla, Open Approach	PX	ICD-10-PCS
0NBR3ZZ	Excision of Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0NBR4ZZ	Excision of Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBS0ZZ	Excision of Left Maxilla, Open Approach	PX	ICD-10-PCS
0NBS3ZZ	Excision of Left Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0NBS4ZZ	Excision of Left Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBT0ZZ	Excision of Right Mandible, Open Approach	PX	ICD-10-PCS
0NBT3ZZ	Excision of Right Mandible, Percutaneous Approach	PX	ICD-10-PCS
0NBT4ZZ	Excision of Right Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBV0ZZ	Excision of Left Mandible, Open Approach	PX	ICD-10-PCS
0NBV3ZZ	Excision of Left Mandible, Percutaneous Approach	PX	ICD-10-PCS
0NBV4ZZ	Excision of Left Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NBX0ZZ	Excision of Hyoid Bone, Open Approach	PX	ICD-10-PCS
0NBX3ZZ	Excision of Hyoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NBX4ZZ	Excision of Hyoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NC10ZZ	Extirpation of Matter from Frontal Bone, Open Approach	PX	ICD-10-PCS
0NC13ZZ	Extirpation of Matter from Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NC14ZZ	Extirpation of Matter from Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NC20ZZ	Extirpation of Matter from Left Frontal Bone, Open Approach	PX	ICD-10-PCS
0NC23ZZ	Extirpation of Matter from Left Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NC24ZZ	Extirpation of Matter from Left Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NC30ZZ	Extirpation of Matter from Right Parietal Bone, Open Approach	PX	ICD-10-PCS
0NC33ZZ	Extirpation of Matter from Right Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NC34ZZ	Extirpation of Matter from Right Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NC40ZZ	Extirpation of Matter from Left Parietal Bone, Open Approach	PX	ICD-10-PCS
0NC43ZZ	Extirpation of Matter from Left Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NC44ZZ	Extirpation of Matter from Left Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NC50ZZ	Extirpation of Matter from Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0NC53ZZ	Extirpation of Matter from Right Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NC54ZZ	Extirpation of Matter from Right Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NC60ZZ	Extirpation of Matter from Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0NC63ZZ	Extirpation of Matter from Left Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NC64ZZ	Extirpation of Matter from Left Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NC70ZZ	Extirpation of Matter from Occipital Bone, Open Approach	PX	ICD-10-PCS
0NC73ZZ	Extirpation of Matter from Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NC74ZZ	Extirpation of Matter from Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NC80ZZ	Extirpation of Matter from Left Occipital Bone, Open Approach	PX	ICD-10-PCS
0NC83ZZ	Extirpation of Matter from Left Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NC84ZZ	Extirpation of Matter from Left Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCB0ZZ	Extirpation of Matter from Nasal Bone, Open Approach	PX	ICD-10-PCS
0NCB4ZZ	Extirpation of Matter from Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCC0ZZ	Extirpation of Matter from Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NCC3ZZ	Extirpation of Matter from Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NCC4ZZ	Extirpation of Matter from Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCD0ZZ	Extirpation of Matter from Left Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NCD3ZZ	Extirpation of Matter from Left Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NCD4ZZ	Extirpation of Matter from Left Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCF0ZZ	Extirpation of Matter from Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NCF3ZZ	Extirpation of Matter from Right Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NCF4ZZ	Extirpation of Matter from Right Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCG0ZZ	Extirpation of Matter from Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NCG3ZZ	Extirpation of Matter from Left Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NCG4ZZ	Extirpation of Matter from Left Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCH0ZZ	Extirpation of Matter from Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NCH3ZZ	Extirpation of Matter from Right Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NCH4ZZ	Extirpation of Matter from Right Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCJ0ZZ	Extirpation of Matter from Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NCJ3ZZ	Extirpation of Matter from Left Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NCJ4ZZ	Extirpation of Matter from Left Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCK0ZZ	Extirpation of Matter from Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0NCK3ZZ	Extirpation of Matter from Right Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0NCK4ZZ	Extirpation of Matter from Right Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCL0ZZ	Extirpation of Matter from Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0NCL3ZZ	Extirpation of Matter from Left Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0NCL4ZZ	Extirpation of Matter from Left Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCM0ZZ	Extirpation of Matter from Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NCM3ZZ	Extirpation of Matter from Right Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0NCM4ZZ	Extirpation of Matter from Right Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCN0ZZ	Extirpation of Matter from Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NCN3ZZ	Extirpation of Matter from Left Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0NCN4ZZ	Extirpation of Matter from Left Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCP0ZZ	Extirpation of Matter from Right Orbit, Open Approach	PX	ICD-10-PCS
0NCP3ZZ	Extirpation of Matter from Right Orbit, Percutaneous Approach	PX	ICD-10-PCS
0NCP4ZZ	Extirpation of Matter from Right Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCQ0ZZ	Extirpation of Matter from Left Orbit, Open Approach	PX	ICD-10-PCS
0NCQ3ZZ	Extirpation of Matter from Left Orbit, Percutaneous Approach	PX	ICD-10-PCS
0NCQ4ZZ	Extirpation of Matter from Left Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCR0ZZ	Extirpation of Matter from Maxilla, Open Approach	PX	ICD-10-PCS
0NCR4ZZ	Extirpation of Matter from Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCT0ZZ	Extirpation of Matter from Right Mandible, Open Approach	PX	ICD-10-PCS
0NCT4ZZ	Extirpation of Matter from Right Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCV0ZZ	Extirpation of Matter from Left Mandible, Open Approach	PX	ICD-10-PCS
0NCV4ZZ	Extirpation of Matter from Left Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NCX0ZZ	Extirpation of Matter from Hyoid Bone, Open Approach	PX	ICD-10-PCS
0NCX3ZZ	Extirpation of Matter from Hyoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NCX4ZZ	Extirpation of Matter from Hyoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0ND00ZZ	Extraction of Skull, Open Approach	PX	ICD-10-PCS
0ND10ZZ	Extraction of Frontal Bone, Open Approach	PX	ICD-10-PCS
0ND30ZZ	Extraction of Right Parietal Bone, Open Approach	PX	ICD-10-PCS
0ND40ZZ	Extraction of Left Parietal Bone, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0ND50ZZ	Extraction of Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0ND60ZZ	Extraction of Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0ND70ZZ	Extraction of Occipital Bone, Open Approach	PX	ICD-10-PCS
0NDB0ZZ	Extraction of Nasal Bone, Open Approach	PX	ICD-10-PCS
0NDC0ZZ	Extraction of Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NDF0ZZ	Extraction of Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NDG0ZZ	Extraction of Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NDH0ZZ	Extraction of Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NDJ0ZZ	Extraction of Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NDK0ZZ	Extraction of Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0NDL0ZZ	Extraction of Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0NDM0ZZ	Extraction of Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NDN0ZZ	Extraction of Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NDP0ZZ	Extraction of Right Orbit, Open Approach	PX	ICD-10-PCS
0NDQ0ZZ	Extraction of Left Orbit, Open Approach	PX	ICD-10-PCS
0NDR0ZZ	Extraction of Maxilla, Open Approach	PX	ICD-10-PCS
0NDT0ZZ	Extraction of Right Mandible, Open Approach	PX	ICD-10-PCS
0NDV0ZZ	Extraction of Left Mandible, Open Approach	PX	ICD-10-PCS
0NDX0ZZ	Extraction of Hyoid Bone, Open Approach	PX	ICD-10-PCS
0NH003Z	Insertion of Infusion Device into Skull, Open Approach	PX	ICD-10-PCS
0NH004Z	Insertion of Internal Fixation Device into Skull, Open Approach	PX	ICD-10-PCS
0NH005Z	Insertion of External Fixation Device into Skull, Open Approach	PX	ICD-10-PCS
0NH00MZ	Insertion of Bone Growth Stimulator into Skull, Open Approach	PX	ICD-10-PCS
0NH00NZ	Insertion of Neurostimulator Generator into Skull, Open Approach	PX	ICD-10-PCS
0NH033Z	Insertion of Infusion Device into Skull, Percutaneous Approach	PX	ICD-10-PCS
0NH034Z	Insertion of Internal Fixation Device into Skull, Percutaneous Approach	PX	ICD-10-PCS
0NH03MZ	Insertion of Bone Growth Stimulator into Skull, Percutaneous Approach	PX	ICD-10-PCS
0NH043Z	Insertion of Infusion Device into Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH044Z	Insertion of Internal Fixation Device into Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH045Z	Insertion of External Fixation Device into Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH04MZ	Insertion of Bone Growth Stimulator into Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH104Z	Insertion of Internal Fixation Device into Frontal Bone, Open Approach	PX	ICD-10-PCS
0NH134Z	Insertion of Internal Fixation Device into Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NH144Z	Insertion of Internal Fixation Device into Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH204Z	Insertion of Internal Fixation Device into Left Frontal Bone, Open Approach	PX	ICD-10-PCS
0NH234Z	Insertion of Internal Fixation Device into Left Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NH244Z	Insertion of Internal Fixation Device into Left Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH304Z	Insertion of Internal Fixation Device into Right Parietal Bone, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NH334Z	Insertion of Internal Fixation Device into Right Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NH344Z	Insertion of Internal Fixation Device into Right Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH404Z	Insertion of Internal Fixation Device into Left Parietal Bone, Open Approach	PX	ICD-10-PCS
0NH434Z	Insertion of Internal Fixation Device into Left Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NH444Z	Insertion of Internal Fixation Device into Left Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH504Z	Insertion of Internal Fixation Device into Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0NH50SZ	Insertion of Hearing Device into Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0NH534Z	Insertion of Internal Fixation Device into Right Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NH53SZ	Insertion of Hearing Device into Right Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NH544Z	Insertion of Internal Fixation Device into Right Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH54SZ	Insertion of Hearing Device into Right Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH604Z	Insertion of Internal Fixation Device into Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0NH60SZ	Insertion of Hearing Device into Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0NH634Z	Insertion of Internal Fixation Device into Left Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NH63SZ	Insertion of Hearing Device into Left Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NH644Z	Insertion of Internal Fixation Device into Left Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH64SZ	Insertion of Hearing Device into Left Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH704Z	Insertion of Internal Fixation Device into Occipital Bone, Open Approach	PX	ICD-10-PCS
0NH734Z	Insertion of Internal Fixation Device into Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NH744Z	Insertion of Internal Fixation Device into Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NH804Z	Insertion of Internal Fixation Device into Left Occipital Bone, Open Approach	PX	ICD-10-PCS
0NH834Z	Insertion of Internal Fixation Device into Left Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NH844Z	Insertion of Internal Fixation Device into Left Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHB04Z	Insertion of Internal Fixation Device into Nasal Bone, Open Approach	PX	ICD-10-PCS
0NHB0MZ	Insertion of Bone Growth Stimulator into Nasal Bone, Open Approach	PX	ICD-10-PCS
0NHB44Z	Insertion of Internal Fixation Device into Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHB4MZ	Insertion of Bone Growth Stimulator into Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHC04Z	Insertion of Internal Fixation Device into Sphenoid Bone, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NHC34Z	Insertion of Internal Fixation Device into Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHC44Z	Insertion of Internal Fixation Device into Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHD04Z	Insertion of Internal Fixation Device into Left Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NHD34Z	Insertion of Internal Fixation Device into Left Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHD44Z	Insertion of Internal Fixation Device into Left Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHF04Z	Insertion of Internal Fixation Device into Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NHF34Z	Insertion of Internal Fixation Device into Right Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHF44Z	Insertion of Internal Fixation Device into Right Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHG04Z	Insertion of Internal Fixation Device into Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NHG34Z	Insertion of Internal Fixation Device into Left Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHG44Z	Insertion of Internal Fixation Device into Left Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHH04Z	Insertion of Internal Fixation Device into Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NHH34Z	Insertion of Internal Fixation Device into Right Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHH44Z	Insertion of Internal Fixation Device into Right Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHJ04Z	Insertion of Internal Fixation Device into Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NHJ34Z	Insertion of Internal Fixation Device into Left Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHJ44Z	Insertion of Internal Fixation Device into Left Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHK04Z	Insertion of Internal Fixation Device into Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0NHK34Z	Insertion of Internal Fixation Device into Right Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHK44Z	Insertion of Internal Fixation Device into Right Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHL04Z	Insertion of Internal Fixation Device into Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0NHL34Z	Insertion of Internal Fixation Device into Left Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHL44Z	Insertion of Internal Fixation Device into Left Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHM04Z	Insertion of Internal Fixation Device into Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NHM34Z	Insertion of Internal Fixation Device into Right Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHM44Z	Insertion of Internal Fixation Device into Right Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHN04Z	Insertion of Internal Fixation Device into Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NHN34Z	Insertion of Internal Fixation Device into Left Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHN44Z	Insertion of Internal Fixation Device into Left Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHP04Z	Insertion of Internal Fixation Device into Right Orbit, Open Approach	PX	ICD-10-PCS
0NHP34Z	Insertion of Internal Fixation Device into Right Orbit, Percutaneous Approach	PX	ICD-10-PCS
0NHP44Z	Insertion of Internal Fixation Device into Right Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHQ04Z	Insertion of Internal Fixation Device into Left Orbit, Open Approach	PX	ICD-10-PCS
0NHQ34Z	Insertion of Internal Fixation Device into Left Orbit, Percutaneous Approach	PX	ICD-10-PCS
0NHQ44Z	Insertion of Internal Fixation Device into Left Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHR04Z	Insertion of Internal Fixation Device into Maxilla, Open Approach	PX	ICD-10-PCS
0NHR05Z	Insertion of External Fixation Device into Maxilla, Open Approach	PX	ICD-10-PCS
0NHR34Z	Insertion of Internal Fixation Device into Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0NHR35Z	Insertion of External Fixation Device into Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0NHR44Z	Insertion of Internal Fixation Device into Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHR45Z	Insertion of External Fixation Device into Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHS04Z	Insertion of Internal Fixation Device into Left Maxilla, Open Approach	PX	ICD-10-PCS
0NHS05Z	Insertion of External Fixation Device into Left Maxilla, Open Approach	PX	ICD-10-PCS
0NHS34Z	Insertion of Internal Fixation Device into Left Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0NHS35Z	Insertion of External Fixation Device into Left Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0NHS44Z	Insertion of Internal Fixation Device into Left Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHS45Z	Insertion of External Fixation Device into Left Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHT04Z	Insertion of Internal Fixation Device into Right Mandible, Open Approach	PX	ICD-10-PCS
0NHT05Z	Insertion of External Fixation Device into Right Mandible, Open Approach	PX	ICD-10-PCS
0NHT34Z	Insertion of Internal Fixation Device into Right Mandible, Percutaneous Approach	PX	ICD-10-PCS
0NHT35Z	Insertion of External Fixation Device into Right Mandible, Percutaneous Approach	PX	ICD-10-PCS
0NHT44Z	Insertion of Internal Fixation Device into Right Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHT45Z	Insertion of External Fixation Device into Right Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHV04Z	Insertion of Internal Fixation Device into Left Mandible, Open Approach	PX	ICD-10-PCS
0NHV05Z	Insertion of External Fixation Device into Left Mandible, Open Approach	PX	ICD-10-PCS
0NHV34Z	Insertion of Internal Fixation Device into Left Mandible, Percutaneous Approach	PX	ICD-10-PCS
0NHV35Z	Insertion of External Fixation Device into Left Mandible, Percutaneous Approach	PX	ICD-10-PCS
0NHV44Z	Insertion of Internal Fixation Device into Left Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NHV45Z	Insertion of External Fixation Device into Left Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHW0MZ	Insertion of Bone Growth Stimulator into Facial Bone, Open Approach	PX	ICD-10-PCS
0NHW3MZ	Insertion of Bone Growth Stimulator into Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHW4MZ	Insertion of Bone Growth Stimulator into Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NHX04Z	Insertion of Internal Fixation Device into Hyoid Bone, Open Approach	PX	ICD-10-PCS
0NHX34Z	Insertion of Internal Fixation Device into Hyoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NHX44Z	Insertion of Internal Fixation Device into Hyoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NN10ZZ	Release Frontal Bone, Open Approach	PX	ICD-10-PCS
0NN13ZZ	Release Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NN14ZZ	Release Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NN20ZZ	Release Left Frontal Bone, Open Approach	PX	ICD-10-PCS
0NN23ZZ	Release Left Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NN24ZZ	Release Left Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NN30ZZ	Release Right Parietal Bone, Open Approach	PX	ICD-10-PCS
0NN33ZZ	Release Right Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NN34ZZ	Release Right Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NN40ZZ	Release Left Parietal Bone, Open Approach	PX	ICD-10-PCS
0NN43ZZ	Release Left Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NN44ZZ	Release Left Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NN50ZZ	Release Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0NN53ZZ	Release Right Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NN54ZZ	Release Right Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NN60ZZ	Release Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0NN63ZZ	Release Left Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NN64ZZ	Release Left Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NN70ZZ	Release Occipital Bone, Open Approach	PX	ICD-10-PCS
0NN73ZZ	Release Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NN74ZZ	Release Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NN80ZZ	Release Left Occipital Bone, Open Approach	PX	ICD-10-PCS
0NN83ZZ	Release Left Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NN84ZZ	Release Left Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNB0ZZ	Release Nasal Bone, Open Approach	PX	ICD-10-PCS
0NNB4ZZ	Release Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNC0ZZ	Release Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NNC3ZZ	Release Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NNC4ZZ	Release Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NND0ZZ	Release Left Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NND3ZZ	Release Left Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NND4ZZ	Release Left Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNF0ZZ	Release Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NNF3ZZ	Release Right Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NNF4ZZ	Release Right Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NNG0ZZ	Release Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NNG3ZZ	Release Left Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NNG4ZZ	Release Left Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNH0ZZ	Release Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NNH3ZZ	Release Right Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NNH4ZZ	Release Right Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNJ0ZZ	Release Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NNJ3ZZ	Release Left Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NNJ4ZZ	Release Left Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNK0ZZ	Release Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0NNK3ZZ	Release Right Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0NNK4ZZ	Release Right Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNL0ZZ	Release Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0NNL3ZZ	Release Left Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0NNL4ZZ	Release Left Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNM0ZZ	Release Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NNM3ZZ	Release Right Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0NNM4ZZ	Release Right Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNN0ZZ	Release Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NNN3ZZ	Release Left Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0NNN4ZZ	Release Left Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNP0ZZ	Release Right Orbit, Open Approach	PX	ICD-10-PCS
0NNP3ZZ	Release Right Orbit, Percutaneous Approach	PX	ICD-10-PCS
0NNP4ZZ	Release Right Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNQ0ZZ	Release Left Orbit, Open Approach	PX	ICD-10-PCS
0NNQ3ZZ	Release Left Orbit, Percutaneous Approach	PX	ICD-10-PCS
0NNQ4ZZ	Release Left Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNR0ZZ	Release Maxilla, Open Approach	PX	ICD-10-PCS
0NNR3ZZ	Release Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0NNR4ZZ	Release Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNS0ZZ	Release Left Maxilla, Open Approach	PX	ICD-10-PCS
0NNS3ZZ	Release Left Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0NNS4ZZ	Release Left Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNT0ZZ	Release Right Mandible, Open Approach	PX	ICD-10-PCS
0NNT3ZZ	Release Right Mandible, Percutaneous Approach	PX	ICD-10-PCS
0NNT4ZZ	Release Right Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNV0ZZ	Release Left Mandible, Open Approach	PX	ICD-10-PCS
0NNV3ZZ	Release Left Mandible, Percutaneous Approach	PX	ICD-10-PCS
0NNV4ZZ	Release Left Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NNX0ZZ	Release Hyoid Bone, Open Approach	PX	ICD-10-PCS
0NNX3ZZ	Release Hyoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NNX4ZZ	Release Hyoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NP000Z	Removal of Drainage Device from Skull, Open Approach	PX	ICD-10-PCS
0NP003Z	Removal of Infusion Device from Skull, Open Approach	PX	ICD-10-PCS
0NP004Z	Removal of Internal Fixation Device from Skull, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NP005Z	Removal of External Fixation Device from Skull, Open Approach	PX	ICD-10-PCS
0NP007Z	Removal of Autologous Tissue Substitute from Skull, Open Approach	PX	ICD-10-PCS
0NP00JZ	Removal of Synthetic Substitute from Skull, Open Approach	PX	ICD-10-PCS
0NP00KZ	Removal of Nonautologous Tissue Substitute from Skull, Open Approach	PX	ICD-10-PCS
0NP00MZ	Removal of Bone Growth Stimulator from Skull, Open Approach	PX	ICD-10-PCS
0NP00NZ	Removal of Neurostimulator Generator from Skull, Open Approach	PX	ICD-10-PCS
0NP00SZ	Removal of Hearing Device from Skull, Open Approach	PX	ICD-10-PCS
0NP030Z	Removal of Drainage Device from Skull, Percutaneous Approach	PX	ICD-10-PCS
0NP033Z	Removal of Infusion Device from Skull, Percutaneous Approach	PX	ICD-10-PCS
0NP034Z	Removal of Internal Fixation Device from Skull, Percutaneous Approach	PX	ICD-10-PCS
0NP037Z	Removal of Autologous Tissue Substitute from Skull, Percutaneous Approach	PX	ICD-10-PCS
0NP03JZ	Removal of Synthetic Substitute from Skull, Percutaneous Approach	PX	ICD-10-PCS
0NP03KZ	Removal of Nonautologous Tissue Substitute from Skull, Percutaneous Approach	PX	ICD-10-PCS
0NP03MZ	Removal of Bone Growth Stimulator from Skull, Percutaneous Approach	PX	ICD-10-PCS
0NP03SZ	Removal of Hearing Device from Skull, Percutaneous Approach	PX	ICD-10-PCS
0NP040Z	Removal of Drainage Device from Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NP043Z	Removal of Infusion Device from Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NP044Z	Removal of Internal Fixation Device from Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NP045Z	Removal of External Fixation Device from Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NP047Z	Removal of Autologous Tissue Substitute from Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NP04JZ	Removal of Synthetic Substitute from Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NP04KZ	Removal of Nonautologous Tissue Substitute from Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NP04MZ	Removal of Bone Growth Stimulator from Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NP04SZ	Removal of Hearing Device from Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NP0X4Z	Removal of Internal Fixation Device from Skull, External Approach	PX	ICD-10-PCS
0NP0XMZ	Removal of Bone Growth Stimulator from Skull, External Approach	PX	ICD-10-PCS
0NP0XSZ	Removal of Hearing Device from Skull, External Approach	PX	ICD-10-PCS
0NPB00Z	Removal of Drainage Device from Nasal Bone, Open Approach	PX	ICD-10-PCS
0NPB04Z	Removal of Internal Fixation Device from Nasal Bone, Open Approach	PX	ICD-10-PCS
0NPB05Z	Removal of External Fixation Device from Nasal Bone, Open Approach	PX	ICD-10-PCS
0NPB07Z	Removal of Autologous Tissue Substitute from Nasal Bone, Open Approach	PX	ICD-10-PCS
0NPB0JZ	Removal of Synthetic Substitute from Nasal Bone, Open Approach	PX	ICD-10-PCS
0NPB0KZ	Removal of Nonautologous Tissue Substitute from Nasal Bone, Open Approach	PX	ICD-10-PCS
0NPB0MZ	Removal of Bone Growth Stimulator from Nasal Bone, Open Approach	PX	ICD-10-PCS
0NPB40Z	Removal of Drainage Device from Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPB44Z	Removal of Internal Fixation Device from Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NPB45Z	Removal of External Fixation Device from Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPB47Z	Removal of Autologous Tissue Substitute from Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPB4JZ	Removal of Synthetic Substitute from Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPB4KZ	Removal of Nonautologous Tissue Substitute from Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPB4MZ	Removal of Bone Growth Stimulator from Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPW00Z	Removal of Drainage Device from Facial Bone, Open Approach	PX	ICD-10-PCS
0NPW04Z	Removal of Internal Fixation Device from Facial Bone, Open Approach	PX	ICD-10-PCS
0NPW05Z	Removal of External Fixation Device from Facial Bone, Open Approach	PX	ICD-10-PCS
0NPW07Z	Removal of Autologous Tissue Substitute from Facial Bone, Open Approach	PX	ICD-10-PCS
0NPW0JZ	Removal of Synthetic Substitute from Facial Bone, Open Approach	PX	ICD-10-PCS
0NPW0KZ	Removal of Nonautologous Tissue Substitute from Facial Bone, Open Approach	PX	ICD-10-PCS
0NPW0MZ	Removal of Bone Growth Stimulator from Facial Bone, Open Approach	PX	ICD-10-PCS
0NPW30Z	Removal of Drainage Device from Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NPW34Z	Removal of Internal Fixation Device from Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NPW37Z	Removal of Autologous Tissue Substitute from Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NPW3JZ	Removal of Synthetic Substitute from Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NPW3KZ	Removal of Nonautologous Tissue Substitute from Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NPW3MZ	Removal of Bone Growth Stimulator from Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NPW40Z	Removal of Drainage Device from Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPW44Z	Removal of Internal Fixation Device from Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPW45Z	Removal of External Fixation Device from Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPW47Z	Removal of Autologous Tissue Substitute from Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPW4JZ	Removal of Synthetic Substitute from Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPW4KZ	Removal of Nonautologous Tissue Substitute from Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPW4MZ	Removal of Bone Growth Stimulator from Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NPWX4Z	Removal of Internal Fixation Device from Facial Bone, External Approach	PX	ICD-10-PCS
0NQ00ZZ	Repair Skull, Open Approach	PX	ICD-10-PCS
0NQ03ZZ	Repair Skull, Percutaneous Approach	PX	ICD-10-PCS
0NQ04ZZ	Repair Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQ10ZZ	Repair Frontal Bone, Open Approach	PX	ICD-10-PCS
0NQ13ZZ	Repair Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NQ14ZZ	Repair Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQ20ZZ	Repair Left Frontal Bone, Open Approach	PX	ICD-10-PCS
0NQ23ZZ	Repair Left Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQ24ZZ	Repair Left Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQ30ZZ	Repair Right Parietal Bone, Open Approach	PX	ICD-10-PCS
0NQ33ZZ	Repair Right Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQ34ZZ	Repair Right Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQ40ZZ	Repair Left Parietal Bone, Open Approach	PX	ICD-10-PCS
0NQ43ZZ	Repair Left Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQ44ZZ	Repair Left Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQ50ZZ	Repair Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0NQ53ZZ	Repair Right Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQ54ZZ	Repair Right Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQ60ZZ	Repair Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0NQ63ZZ	Repair Left Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQ64ZZ	Repair Left Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQ70ZZ	Repair Occipital Bone, Open Approach	PX	ICD-10-PCS
0NQ73ZZ	Repair Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQ74ZZ	Repair Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQ80ZZ	Repair Left Occipital Bone, Open Approach	PX	ICD-10-PCS
0NQ83ZZ	Repair Left Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQ84ZZ	Repair Left Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQB0ZZ	Repair Nasal Bone, Open Approach	PX	ICD-10-PCS
0NQB3ZZ	Repair Nasal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQB4ZZ	Repair Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQC0ZZ	Repair Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NQC3ZZ	Repair Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQC4ZZ	Repair Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQD0ZZ	Repair Left Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NQD3ZZ	Repair Left Sphenoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQD4ZZ	Repair Left Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQF0ZZ	Repair Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NQF3ZZ	Repair Right Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQF4ZZ	Repair Right Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQG0ZZ	Repair Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NQG3ZZ	Repair Left Ethmoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQG4ZZ	Repair Left Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQH0ZZ	Repair Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NQH3ZZ	Repair Right Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQH4ZZ	Repair Right Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQJ0ZZ	Repair Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NQJ3ZZ	Repair Left Lacrimal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQJ4ZZ	Repair Left Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQK0ZZ	Repair Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0NQK3ZZ	Repair Right Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NQK4ZZ	Repair Right Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQL0ZZ	Repair Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0NQL3ZZ	Repair Left Palatine Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQL4ZZ	Repair Left Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQM0ZZ	Repair Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NQM3ZZ	Repair Right Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQM4ZZ	Repair Right Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQN0ZZ	Repair Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NQN3ZZ	Repair Left Zygomatic Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQN4ZZ	Repair Left Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQP0ZZ	Repair Right Orbit, Open Approach	PX	ICD-10-PCS
0NQP3ZZ	Repair Right Orbit, Percutaneous Approach	PX	ICD-10-PCS
0NQP4ZZ	Repair Right Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQQ0ZZ	Repair Left Orbit, Open Approach	PX	ICD-10-PCS
0NQQ3ZZ	Repair Left Orbit, Percutaneous Approach	PX	ICD-10-PCS
0NQQ4ZZ	Repair Left Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQR0ZZ	Repair Maxilla, Open Approach	PX	ICD-10-PCS
0NQR3ZZ	Repair Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0NQR4ZZ	Repair Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQS0ZZ	Repair Left Maxilla, Open Approach	PX	ICD-10-PCS
0NQS3ZZ	Repair Left Maxilla, Percutaneous Approach	PX	ICD-10-PCS
0NQS4ZZ	Repair Left Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQT0ZZ	Repair Right Mandible, Open Approach	PX	ICD-10-PCS
0NQT3ZZ	Repair Right Mandible, Percutaneous Approach	PX	ICD-10-PCS
0NQT4ZZ	Repair Right Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQV0ZZ	Repair Left Mandible, Open Approach	PX	ICD-10-PCS
0NQV3ZZ	Repair Left Mandible, Percutaneous Approach	PX	ICD-10-PCS
0NQV4ZZ	Repair Left Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NQX0ZZ	Repair Hyoid Bone, Open Approach	PX	ICD-10-PCS
0NQX3ZZ	Repair Hyoid Bone, Percutaneous Approach	PX	ICD-10-PCS
0NQX4ZZ	Repair Hyoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR007Z	Replacement of Skull with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR00JZ	Replacement of Skull with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NR00KZ	Replacement of Skull with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR037Z	Replacement of Skull with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR03JZ	Replacement of Skull with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR03KZ	Replacement of Skull with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR047Z	Replacement of Skull with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR04JZ	Replacement of Skull with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR04KZ	Replacement of Skull with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NR107Z	Replacement of Frontal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR10JZ	Replacement of Frontal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NR10KZ	Replacement of Frontal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR137Z	Replacement of Frontal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR13JZ	Replacement of Frontal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR13KZ	Replacement of Frontal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR147Z	Replacement of Frontal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR14JZ	Replacement of Frontal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR14KZ	Replacement of Frontal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR207Z	Replacement of Left Frontal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR20JZ	Replacement of Left Frontal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NR20KZ	Replacement of Left Frontal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR237Z	Replacement of Left Frontal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR23JZ	Replacement of Left Frontal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR23KZ	Replacement of Left Frontal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR247Z	Replacement of Left Frontal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR24JZ	Replacement of Left Frontal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR24KZ	Replacement of Left Frontal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR307Z	Replacement of Right Parietal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR30JZ	Replacement of Right Parietal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NR30KZ	Replacement of Right Parietal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR337Z	Replacement of Right Parietal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR33JZ	Replacement of Right Parietal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR33KZ	Replacement of Right Parietal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NR347Z	Replacement of Right Parietal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR34JZ	Replacement of Right Parietal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR34KZ	Replacement of Right Parietal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR407Z	Replacement of Left Parietal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR40JZ	Replacement of Left Parietal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NR40KZ	Replacement of Left Parietal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR437Z	Replacement of Left Parietal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR43JZ	Replacement of Left Parietal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR43KZ	Replacement of Left Parietal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR447Z	Replacement of Left Parietal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR44JZ	Replacement of Left Parietal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR44KZ	Replacement of Left Parietal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR507Z	Replacement of Right Temporal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR50JZ	Replacement of Right Temporal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NR50KZ	Replacement of Right Temporal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR537Z	Replacement of Right Temporal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR53JZ	Replacement of Right Temporal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR53KZ	Replacement of Right Temporal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR547Z	Replacement of Right Temporal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR54JZ	Replacement of Right Temporal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR54KZ	Replacement of Right Temporal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR607Z	Replacement of Left Temporal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR60JZ	Replacement of Left Temporal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NR60KZ	Replacement of Left Temporal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NR637Z	Replacement of Left Temporal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR63JZ	Replacement of Left Temporal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR63KZ	Replacement of Left Temporal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR647Z	Replacement of Left Temporal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR64JZ	Replacement of Left Temporal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR64KZ	Replacement of Left Temporal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR707Z	Replacement of Occipital Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR70JZ	Replacement of Occipital Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NR70KZ	Replacement of Occipital Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR737Z	Replacement of Occipital Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR73JZ	Replacement of Occipital Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR73KZ	Replacement of Occipital Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR747Z	Replacement of Occipital Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR74JZ	Replacement of Occipital Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR74KZ	Replacement of Occipital Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR807Z	Replacement of Left Occipital Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR80JZ	Replacement of Left Occipital Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NR80KZ	Replacement of Left Occipital Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NR837Z	Replacement of Left Occipital Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR83JZ	Replacement of Left Occipital Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR83KZ	Replacement of Left Occipital Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NR847Z	Replacement of Left Occipital Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NR84JZ	Replacement of Left Occipital Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NR84KZ	Replacement of Left Occipital Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRB07Z	Replacement of Nasal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRB0JZ	Replacement of Nasal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRB0KZ	Replacement of Nasal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRB37Z	Replacement of Nasal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRB3JZ	Replacement of Nasal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRB3KZ	Replacement of Nasal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRB47Z	Replacement of Nasal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRB4JZ	Replacement of Nasal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRB4KZ	Replacement of Nasal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRC07Z	Replacement of Sphenoid Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRC0JZ	Replacement of Sphenoid Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRC0KZ	Replacement of Sphenoid Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRC37Z	Replacement of Sphenoid Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRC3JZ	Replacement of Sphenoid Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRC3KZ	Replacement of Sphenoid Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRC47Z	Replacement of Sphenoid Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRC4JZ	Replacement of Sphenoid Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRC4KZ	Replacement of Sphenoid Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRD07Z	Replacement of Left Sphenoid Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRD0JZ	Replacement of Left Sphenoid Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRD0KZ	Replacement of Left Sphenoid Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRD37Z	Replacement of Left Sphenoid Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRD3JZ	Replacement of Left Sphenoid Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRD3KZ	Replacement of Left Sphenoid Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NRD47Z	Replacement of Left Sphenoid Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRD4JZ	Replacement of Left Sphenoid Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRD4KZ	Replacement of Left Sphenoid Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRF07Z	Replacement of Right Ethmoid Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRF0JZ	Replacement of Right Ethmoid Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRF0KZ	Replacement of Right Ethmoid Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRF37Z	Replacement of Right Ethmoid Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRF3JZ	Replacement of Right Ethmoid Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRF3KZ	Replacement of Right Ethmoid Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRF47Z	Replacement of Right Ethmoid Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRF4JZ	Replacement of Right Ethmoid Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRF4KZ	Replacement of Right Ethmoid Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRG07Z	Replacement of Left Ethmoid Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRG0JZ	Replacement of Left Ethmoid Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRG0KZ	Replacement of Left Ethmoid Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRG37Z	Replacement of Left Ethmoid Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRG3JZ	Replacement of Left Ethmoid Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRG3KZ	Replacement of Left Ethmoid Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRG47Z	Replacement of Left Ethmoid Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRG4JZ	Replacement of Left Ethmoid Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRG4KZ	Replacement of Left Ethmoid Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRH07Z	Replacement of Right Lacrimal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRH0JZ	Replacement of Right Lacrimal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRH0KZ	Replacement of Right Lacrimal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NRH37Z	Replacement of Right Lacrimal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRH3JZ	Replacement of Right Lacrimal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRH3KZ	Replacement of Right Lacrimal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRH47Z	Replacement of Right Lacrimal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRH4JZ	Replacement of Right Lacrimal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRH4KZ	Replacement of Right Lacrimal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRJ07Z	Replacement of Left Lacrimal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRJ0JZ	Replacement of Left Lacrimal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRJ0KZ	Replacement of Left Lacrimal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRJ37Z	Replacement of Left Lacrimal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRJ3JZ	Replacement of Left Lacrimal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRJ3KZ	Replacement of Left Lacrimal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRJ47Z	Replacement of Left Lacrimal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRJ4JZ	Replacement of Left Lacrimal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRJ4KZ	Replacement of Left Lacrimal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRK07Z	Replacement of Right Palatine Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRK0JZ	Replacement of Right Palatine Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRK0KZ	Replacement of Right Palatine Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRK37Z	Replacement of Right Palatine Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRK3JZ	Replacement of Right Palatine Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRK3KZ	Replacement of Right Palatine Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRK47Z	Replacement of Right Palatine Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRK4JZ	Replacement of Right Palatine Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NRK4KZ	Replacement of Right Palatine Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRL07Z	Replacement of Left Palatine Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRL0JZ	Replacement of Left Palatine Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRL0KZ	Replacement of Left Palatine Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRL37Z	Replacement of Left Palatine Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRL3JZ	Replacement of Left Palatine Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRL3KZ	Replacement of Left Palatine Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRL47Z	Replacement of Left Palatine Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRL4JZ	Replacement of Left Palatine Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRL4KZ	Replacement of Left Palatine Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRM07Z	Replacement of Right Zygomatic Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRM0JZ	Replacement of Right Zygomatic Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRM0KZ	Replacement of Right Zygomatic Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRM37Z	Replacement of Right Zygomatic Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRM3JZ	Replacement of Right Zygomatic Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRM3KZ	Replacement of Right Zygomatic Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRM47Z	Replacement of Right Zygomatic Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRM4JZ	Replacement of Right Zygomatic Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRM4KZ	Replacement of Right Zygomatic Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRN07Z	Replacement of Left Zygomatic Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRN0JZ	Replacement of Left Zygomatic Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRN0KZ	Replacement of Left Zygomatic Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRN37Z	Replacement of Left Zygomatic Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NRN3JZ	Replacement of Left Zygomatic Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRN3KZ	Replacement of Left Zygomatic Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRN47Z	Replacement of Left Zygomatic Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRN4JZ	Replacement of Left Zygomatic Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRN4KZ	Replacement of Left Zygomatic Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRP07Z	Replacement of Right Orbit with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRP0JZ	Replacement of Right Orbit with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRP0KZ	Replacement of Right Orbit with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRP37Z	Replacement of Right Orbit with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRP3JZ	Replacement of Right Orbit with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRP3KZ	Replacement of Right Orbit with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRP47Z	Replacement of Right Orbit with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRP4JZ	Replacement of Right Orbit with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRP4KZ	Replacement of Right Orbit with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRQ07Z	Replacement of Left Orbit with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRQ0JZ	Replacement of Left Orbit with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRQ0KZ	Replacement of Left Orbit with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRQ37Z	Replacement of Left Orbit with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRQ3JZ	Replacement of Left Orbit with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRQ3KZ	Replacement of Left Orbit with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRQ47Z	Replacement of Left Orbit with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRQ4JZ	Replacement of Left Orbit with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRQ4KZ	Replacement of Left Orbit with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRR07Z	Replacement of Maxilla with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRR0JZ	Replacement of Maxilla with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRR0KZ	Replacement of Maxilla with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRR37Z	Replacement of Maxilla with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NRR3JZ	Replacement of Maxilla with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRR3KZ	Replacement of Maxilla with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRR47Z	Replacement of Maxilla with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRR4JZ	Replacement of Maxilla with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRR4KZ	Replacement of Maxilla with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRS07Z	Replacement of Left Maxilla with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRS0JZ	Replacement of Left Maxilla with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRS0KZ	Replacement of Left Maxilla with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRS37Z	Replacement of Left Maxilla with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRS3JZ	Replacement of Left Maxilla with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRS3KZ	Replacement of Left Maxilla with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRS47Z	Replacement of Left Maxilla with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRS4JZ	Replacement of Left Maxilla with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRS4KZ	Replacement of Left Maxilla with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRT07Z	Replacement of Right Mandible with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRT0JZ	Replacement of Right Mandible with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRT0KZ	Replacement of Right Mandible with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRT37Z	Replacement of Right Mandible with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRT3JZ	Replacement of Right Mandible with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRT3KZ	Replacement of Right Mandible with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRT47Z	Replacement of Right Mandible with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRT4JZ	Replacement of Right Mandible with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRT4KZ	Replacement of Right Mandible with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRV07Z	Replacement of Left Mandible with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRV0JZ	Replacement of Left Mandible with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NRV0KZ	Replacement of Left Mandible with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRV37Z	Replacement of Left Mandible with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRV3JZ	Replacement of Left Mandible with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRV3KZ	Replacement of Left Mandible with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRV47Z	Replacement of Left Mandible with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRV4JZ	Replacement of Left Mandible with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRV4KZ	Replacement of Left Mandible with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRX07Z	Replacement of Hyoid Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRX0JZ	Replacement of Hyoid Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NRX0KZ	Replacement of Hyoid Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NRX37Z	Replacement of Hyoid Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRX3JZ	Replacement of Hyoid Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRX3KZ	Replacement of Hyoid Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NRX47Z	Replacement of Hyoid Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRX4JZ	Replacement of Hyoid Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NRX4KZ	Replacement of Hyoid Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS004Z	Reposition Skull with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NS005Z	Reposition Skull with External Fixation Device, Open Approach	PX	ICD-10-PCS
0NS00ZZ	Reposition Skull, Open Approach	PX	ICD-10-PCS
0NS034Z	Reposition Skull with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0NS035Z	Reposition Skull with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0NS03ZZ	Reposition Skull, Percutaneous Approach	PX	ICD-10-PCS
0NS044Z	Reposition Skull with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS045Z	Reposition Skull with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS04ZZ	Reposition Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS104Z	Reposition Frontal Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NS10ZZ	Reposition Frontal Bone, Open Approach	PX	ICD-10-PCS
0NS134Z	Reposition Frontal Bone with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0NS13ZZ	Reposition Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NS144Z	Reposition Frontal Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS14ZZ	Reposition Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS204Z	Reposition Left Frontal Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NS20ZZ	Reposition Left Frontal Bone, Open Approach	PX	ICD-10-PCS
0NS234Z	Reposition Left Frontal Bone with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0NS23ZZ	Reposition Left Frontal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NS244Z	Reposition Left Frontal Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS24ZZ	Reposition Left Frontal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS304Z	Reposition Right Parietal Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NS30ZZ	Reposition Right Parietal Bone, Open Approach	PX	ICD-10-PCS
0NS334Z	Reposition Right Parietal Bone with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0NS33ZZ	Reposition Right Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NS344Z	Reposition Right Parietal Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS34ZZ	Reposition Right Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS404Z	Reposition Left Parietal Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NS40ZZ	Reposition Left Parietal Bone, Open Approach	PX	ICD-10-PCS
0NS434Z	Reposition Left Parietal Bone with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0NS43ZZ	Reposition Left Parietal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NS444Z	Reposition Left Parietal Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS44ZZ	Reposition Left Parietal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS504Z	Reposition Right Temporal Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NS50ZZ	Reposition Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0NS534Z	Reposition Right Temporal Bone with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0NS53ZZ	Reposition Right Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NS544Z	Reposition Right Temporal Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS54ZZ	Reposition Right Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS604Z	Reposition Left Temporal Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NS60ZZ	Reposition Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0NS634Z	Reposition Left Temporal Bone with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0NS63ZZ	Reposition Left Temporal Bone, Percutaneous Approach	PX	ICD-10-PCS
0NS644Z	Reposition Left Temporal Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS64ZZ	Reposition Left Temporal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS704Z	Reposition Occipital Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NS70ZZ	Reposition Occipital Bone, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NS734Z	Reposition Occipital Bone with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0NS73ZZ	Reposition Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NS744Z	Reposition Occipital Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS74ZZ	Reposition Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS804Z	Reposition Left Occipital Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NS80ZZ	Reposition Left Occipital Bone, Open Approach	PX	ICD-10-PCS
0NS834Z	Reposition Left Occipital Bone with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0NS83ZZ	Reposition Left Occipital Bone, Percutaneous Approach	PX	ICD-10-PCS
0NS844Z	Reposition Left Occipital Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NS84ZZ	Reposition Left Occipital Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSB04Z	Reposition Nasal Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSB0ZZ	Reposition Nasal Bone, Open Approach	PX	ICD-10-PCS
0NSB44Z	Reposition Nasal Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSB4ZZ	Reposition Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSC04Z	Reposition Sphenoid Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSC0ZZ	Reposition Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NSC44Z	Reposition Sphenoid Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSC4ZZ	Reposition Sphenoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSD04Z	Reposition Left Sphenoid Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSD0ZZ	Reposition Left Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NSF04Z	Reposition Right Ethmoid Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSF0ZZ	Reposition Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NSF44Z	Reposition Right Ethmoid Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSF4ZZ	Reposition Right Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSG04Z	Reposition Left Ethmoid Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSG0ZZ	Reposition Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NSG44Z	Reposition Left Ethmoid Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSG4ZZ	Reposition Left Ethmoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSH04Z	Reposition Right Lacrimal Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSH0ZZ	Reposition Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NSH44Z	Reposition Right Lacrimal Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSH4ZZ	Reposition Right Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSJ04Z	Reposition Left Lacrimal Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSJ0ZZ	Reposition Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NSJ44Z	Reposition Left Lacrimal Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSJ4ZZ	Reposition Left Lacrimal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NSK04Z	Reposition Right Palatine Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSK0ZZ	Reposition Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0NSK44Z	Reposition Right Palatine Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSK4ZZ	Reposition Right Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSL04Z	Reposition Left Palatine Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSL0ZZ	Reposition Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0NSL44Z	Reposition Left Palatine Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSL4ZZ	Reposition Left Palatine Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSM04Z	Reposition Right Zygomatic Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSM0ZZ	Reposition Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NSM44Z	Reposition Right Zygomatic Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSM4ZZ	Reposition Right Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSN04Z	Reposition Left Zygomatic Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSN0ZZ	Reposition Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NSN44Z	Reposition Left Zygomatic Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSN4ZZ	Reposition Left Zygomatic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSP04Z	Reposition Right Orbit with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSP0ZZ	Reposition Right Orbit, Open Approach	PX	ICD-10-PCS
0NSP44Z	Reposition Right Orbit with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSP4ZZ	Reposition Right Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSQ04Z	Reposition Left Orbit with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSQ0ZZ	Reposition Left Orbit, Open Approach	PX	ICD-10-PCS
0NSQ44Z	Reposition Left Orbit with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSQ4ZZ	Reposition Left Orbit, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSR04Z	Reposition Maxilla with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSR05Z	Reposition Maxilla with External Fixation Device, Open Approach	PX	ICD-10-PCS
0NSR0ZZ	Reposition Maxilla, Open Approach	PX	ICD-10-PCS
0NSR44Z	Reposition Maxilla with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSR45Z	Reposition Maxilla with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSR4ZZ	Reposition Maxilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSS04Z	Reposition Left Maxilla with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSS05Z	Reposition Left Maxilla with External Fixation Device, Open Approach	PX	ICD-10-PCS
0NSS0ZZ	Reposition Left Maxilla, Open Approach	PX	ICD-10-PCS
0NST04Z	Reposition Right Mandible with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NST05Z	Reposition Right Mandible with External Fixation Device, Open Approach	PX	ICD-10-PCS
0NST0ZZ	Reposition Right Mandible, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NST44Z	Reposition Right Mandible with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NST45Z	Reposition Right Mandible with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NST4ZZ	Reposition Right Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSV04Z	Reposition Left Mandible with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSV05Z	Reposition Left Mandible with External Fixation Device, Open Approach	PX	ICD-10-PCS
0NSV0ZZ	Reposition Left Mandible, Open Approach	PX	ICD-10-PCS
0NSV44Z	Reposition Left Mandible with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSV45Z	Reposition Left Mandible with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSV4ZZ	Reposition Left Mandible, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSX04Z	Reposition Hyoid Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0NSX0ZZ	Reposition Hyoid Bone, Open Approach	PX	ICD-10-PCS
0NSX44Z	Reposition Hyoid Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NSX4ZZ	Reposition Hyoid Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NT10ZZ	Resection of Frontal Bone, Open Approach	PX	ICD-10-PCS
0NT20ZZ	Resection of Left Frontal Bone, Open Approach	PX	ICD-10-PCS
0NT30ZZ	Resection of Right Parietal Bone, Open Approach	PX	ICD-10-PCS
0NT40ZZ	Resection of Left Parietal Bone, Open Approach	PX	ICD-10-PCS
0NT50ZZ	Resection of Right Temporal Bone, Open Approach	PX	ICD-10-PCS
0NT60ZZ	Resection of Left Temporal Bone, Open Approach	PX	ICD-10-PCS
0NT70ZZ	Resection of Occipital Bone, Open Approach	PX	ICD-10-PCS
0NT80ZZ	Resection of Left Occipital Bone, Open Approach	PX	ICD-10-PCS
0NTB0ZZ	Resection of Nasal Bone, Open Approach	PX	ICD-10-PCS
0NTC0ZZ	Resection of Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NTD0ZZ	Resection of Left Sphenoid Bone, Open Approach	PX	ICD-10-PCS
0NTF0ZZ	Resection of Right Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NTG0ZZ	Resection of Left Ethmoid Bone, Open Approach	PX	ICD-10-PCS
0NTH0ZZ	Resection of Right Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NTJ0ZZ	Resection of Left Lacrimal Bone, Open Approach	PX	ICD-10-PCS
0NTK0ZZ	Resection of Right Palatine Bone, Open Approach	PX	ICD-10-PCS
0NTL0ZZ	Resection of Left Palatine Bone, Open Approach	PX	ICD-10-PCS
0NTM0ZZ	Resection of Right Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NTN0ZZ	Resection of Left Zygomatic Bone, Open Approach	PX	ICD-10-PCS
0NTP0ZZ	Resection of Right Orbit, Open Approach	PX	ICD-10-PCS
0NTQ0ZZ	Resection of Left Orbit, Open Approach	PX	ICD-10-PCS
0NTR0ZZ	Resection of Maxilla, Open Approach	PX	ICD-10-PCS
0NTS0ZZ	Resection of Left Maxilla, Open Approach	PX	ICD-10-PCS
0NTT0ZZ	Resection of Right Mandible, Open Approach	PX	ICD-10-PCS
0NTV0ZZ	Resection of Left Mandible, Open Approach	PX	ICD-10-PCS
0NTX0ZZ	Resection of Hyoid Bone, Open Approach	PX	ICD-10-PCS
0NU007Z	Supplement Skull with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NU00JZ	Supplement Skull with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NU00KZ	Supplement Skull with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU037Z	Supplement Skull with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU03JZ	Supplement Skull with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU03KZ	Supplement Skull with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU047Z	Supplement Skull with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU04JZ	Supplement Skull with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU04KZ	Supplement Skull with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU107Z	Supplement Frontal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU10JZ	Supplement Frontal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NU10KZ	Supplement Frontal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU137Z	Supplement Frontal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU13JZ	Supplement Frontal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU13KZ	Supplement Frontal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU147Z	Supplement Frontal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU14JZ	Supplement Frontal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU14KZ	Supplement Frontal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU207Z	Supplement Left Frontal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU20JZ	Supplement Left Frontal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NU20KZ	Supplement Left Frontal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU237Z	Supplement Left Frontal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU23JZ	Supplement Left Frontal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU23KZ	Supplement Left Frontal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU247Z	Supplement Left Frontal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU24JZ	Supplement Left Frontal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU24KZ	Supplement Left Frontal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU307Z	Supplement Right Parietal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NU30JZ	Supplement Right Parietal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NU30KZ	Supplement Right Parietal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU337Z	Supplement Right Parietal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU33JZ	Supplement Right Parietal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU33KZ	Supplement Right Parietal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU347Z	Supplement Right Parietal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU34JZ	Supplement Right Parietal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU34KZ	Supplement Right Parietal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU407Z	Supplement Left Parietal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU40JZ	Supplement Left Parietal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NU40KZ	Supplement Left Parietal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU437Z	Supplement Left Parietal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU43JZ	Supplement Left Parietal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU43KZ	Supplement Left Parietal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU447Z	Supplement Left Parietal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU44JZ	Supplement Left Parietal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU44KZ	Supplement Left Parietal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU507Z	Supplement Right Temporal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU50JZ	Supplement Right Temporal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NU50KZ	Supplement Right Temporal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU537Z	Supplement Right Temporal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU53JZ	Supplement Right Temporal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU53KZ	Supplement Right Temporal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU547Z	Supplement Right Temporal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NU54JZ	Supplement Right Temporal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU54KZ	Supplement Right Temporal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU607Z	Supplement Left Temporal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU60JZ	Supplement Left Temporal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NU60KZ	Supplement Left Temporal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU637Z	Supplement Left Temporal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU63JZ	Supplement Left Temporal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU63KZ	Supplement Left Temporal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU647Z	Supplement Left Temporal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU64JZ	Supplement Left Temporal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU64KZ	Supplement Left Temporal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU707Z	Supplement Occipital Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU70JZ	Supplement Occipital Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NU70KZ	Supplement Occipital Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU737Z	Supplement Occipital Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU73JZ	Supplement Occipital Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU73KZ	Supplement Occipital Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU747Z	Supplement Occipital Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU74JZ	Supplement Occipital Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU74KZ	Supplement Occipital Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU807Z	Supplement Left Occipital Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU80JZ	Supplement Left Occipital Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NU80KZ	Supplement Left Occipital Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NU837Z	Supplement Left Occipital Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU83JZ	Supplement Left Occipital Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NU83KZ	Supplement Left Occipital Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NU847Z	Supplement Left Occipital Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU84JZ	Supplement Left Occipital Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NU84KZ	Supplement Left Occipital Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUB07Z	Supplement Nasal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUB0JZ	Supplement Nasal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUB0KZ	Supplement Nasal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUB37Z	Supplement Nasal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUB3JZ	Supplement Nasal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUB3KZ	Supplement Nasal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUB47Z	Supplement Nasal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUB4JZ	Supplement Nasal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUB4KZ	Supplement Nasal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUC07Z	Supplement Sphenoid Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUC0JZ	Supplement Sphenoid Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUC0KZ	Supplement Sphenoid Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUC37Z	Supplement Sphenoid Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUC3JZ	Supplement Sphenoid Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUC3KZ	Supplement Sphenoid Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUC47Z	Supplement Sphenoid Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUC4JZ	Supplement Sphenoid Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUC4KZ	Supplement Sphenoid Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUD07Z	Supplement Left Sphenoid Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUD0JZ	Supplement Left Sphenoid Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUD0KZ	Supplement Left Sphenoid Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUD37Z	Supplement Left Sphenoid Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NUD3JZ	Supplement Left Sphenoid Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUD3KZ	Supplement Left Sphenoid Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUD47Z	Supplement Left Sphenoid Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUD4JZ	Supplement Left Sphenoid Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUD4KZ	Supplement Left Sphenoid Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUF07Z	Supplement Right Ethmoid Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUF0JZ	Supplement Right Ethmoid Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUF0KZ	Supplement Right Ethmoid Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUF37Z	Supplement Right Ethmoid Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUF3JZ	Supplement Right Ethmoid Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUF3KZ	Supplement Right Ethmoid Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUF47Z	Supplement Right Ethmoid Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUF4JZ	Supplement Right Ethmoid Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUF4KZ	Supplement Right Ethmoid Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUG07Z	Supplement Left Ethmoid Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUG0JZ	Supplement Left Ethmoid Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUG0KZ	Supplement Left Ethmoid Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUG37Z	Supplement Left Ethmoid Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUG3JZ	Supplement Left Ethmoid Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUG3KZ	Supplement Left Ethmoid Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUG47Z	Supplement Left Ethmoid Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUG4JZ	Supplement Left Ethmoid Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUG4KZ	Supplement Left Ethmoid Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NUH07Z	Supplement Right Lacrimal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUH0JZ	Supplement Right Lacrimal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUH0KZ	Supplement Right Lacrimal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUH37Z	Supplement Right Lacrimal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUH3JZ	Supplement Right Lacrimal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUH3KZ	Supplement Right Lacrimal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUH47Z	Supplement Right Lacrimal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUH4JZ	Supplement Right Lacrimal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUH4KZ	Supplement Right Lacrimal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUJ07Z	Supplement Left Lacrimal Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUJ0JZ	Supplement Left Lacrimal Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUJ0KZ	Supplement Left Lacrimal Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUJ37Z	Supplement Left Lacrimal Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUJ3JZ	Supplement Left Lacrimal Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUJ3KZ	Supplement Left Lacrimal Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUJ47Z	Supplement Left Lacrimal Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUJ4JZ	Supplement Left Lacrimal Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUJ4KZ	Supplement Left Lacrimal Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUK07Z	Supplement Right Palatine Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUK0JZ	Supplement Right Palatine Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUK0KZ	Supplement Right Palatine Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUK37Z	Supplement Right Palatine Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUK3JZ	Supplement Right Palatine Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUK3KZ	Supplement Right Palatine Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NUK47Z	Supplement Right Palatine Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUK4JZ	Supplement Right Palatine Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUK4KZ	Supplement Right Palatine Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUL07Z	Supplement Left Palatine Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUL0JZ	Supplement Left Palatine Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUL0KZ	Supplement Left Palatine Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUL37Z	Supplement Left Palatine Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUL3JZ	Supplement Left Palatine Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUL3KZ	Supplement Left Palatine Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUL47Z	Supplement Left Palatine Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUL4JZ	Supplement Left Palatine Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUL4KZ	Supplement Left Palatine Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUM07Z	Supplement Right Zygomatic Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUM0JZ	Supplement Right Zygomatic Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUM0KZ	Supplement Right Zygomatic Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUM37Z	Supplement Right Zygomatic Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUM3JZ	Supplement Right Zygomatic Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUM3KZ	Supplement Right Zygomatic Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUM47Z	Supplement Right Zygomatic Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUM4JZ	Supplement Right Zygomatic Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUM4KZ	Supplement Right Zygomatic Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUN07Z	Supplement Left Zygomatic Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUN0JZ	Supplement Left Zygomatic Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUN0KZ	Supplement Left Zygomatic Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NUN37Z	Supplement Left Zygomatic Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUN3JZ	Supplement Left Zygomatic Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUN3KZ	Supplement Left Zygomatic Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUN47Z	Supplement Left Zygomatic Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUN4JZ	Supplement Left Zygomatic Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUN4KZ	Supplement Left Zygomatic Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUP07Z	Supplement Right Orbit with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUP0JZ	Supplement Right Orbit with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUP0KZ	Supplement Right Orbit with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUP37Z	Supplement Right Orbit with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUP3JZ	Supplement Right Orbit with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUP3KZ	Supplement Right Orbit with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUP47Z	Supplement Right Orbit with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUP4JZ	Supplement Right Orbit with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUP4KZ	Supplement Right Orbit with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUQ07Z	Supplement Left Orbit with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUQ0JZ	Supplement Left Orbit with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUQ0KZ	Supplement Left Orbit with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUQ37Z	Supplement Left Orbit with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUQ3JZ	Supplement Left Orbit with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUQ3KZ	Supplement Left Orbit with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUQ47Z	Supplement Left Orbit with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUQ4JZ	Supplement Left Orbit with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUQ4KZ	Supplement Left Orbit with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUR07Z	Supplement Maxilla with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUR0JZ	Supplement Maxilla with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUR0KZ	Supplement Maxilla with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUR37Z	Supplement Maxilla with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUR3JZ	Supplement Maxilla with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NUR3KZ	Supplement Maxilla with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUR47Z	Supplement Maxilla with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUR4JZ	Supplement Maxilla with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUR4KZ	Supplement Maxilla with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUS07Z	Supplement Left Maxilla with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUS0JZ	Supplement Left Maxilla with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUS0KZ	Supplement Left Maxilla with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUS37Z	Supplement Left Maxilla with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUS3JZ	Supplement Left Maxilla with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUS3KZ	Supplement Left Maxilla with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUS47Z	Supplement Left Maxilla with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUS4JZ	Supplement Left Maxilla with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUS4KZ	Supplement Left Maxilla with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUT07Z	Supplement Right Mandible with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUT0JZ	Supplement Right Mandible with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUT0KZ	Supplement Right Mandible with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUT37Z	Supplement Right Mandible with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUT3JZ	Supplement Right Mandible with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUT3KZ	Supplement Right Mandible with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUT47Z	Supplement Right Mandible with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUT4JZ	Supplement Right Mandible with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUT4KZ	Supplement Right Mandible with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUV07Z	Supplement Left Mandible with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUV0JZ	Supplement Left Mandible with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUV0KZ	Supplement Left Mandible with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUV37Z	Supplement Left Mandible with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUV3JZ	Supplement Left Mandible with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NUV3KZ	Supplement Left Mandible with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUV47Z	Supplement Left Mandible with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUV4JZ	Supplement Left Mandible with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUV4KZ	Supplement Left Mandible with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUX07Z	Supplement Hyoid Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUX0JZ	Supplement Hyoid Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0NUX0KZ	Supplement Hyoid Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0NUX37Z	Supplement Hyoid Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUX3JZ	Supplement Hyoid Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUX3KZ	Supplement Hyoid Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0NUX47Z	Supplement Hyoid Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUX4JZ	Supplement Hyoid Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NUX4KZ	Supplement Hyoid Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NW000Z	Revision of Drainage Device in Skull, Open Approach	PX	ICD-10-PCS
0NW003Z	Revision of Infusion Device in Skull, Open Approach	PX	ICD-10-PCS
0NW004Z	Revision of Internal Fixation Device in Skull, Open Approach	PX	ICD-10-PCS
0NW005Z	Revision of External Fixation Device in Skull, Open Approach	PX	ICD-10-PCS
0NW007Z	Revision of Autologous Tissue Substitute in Skull, Open Approach	PX	ICD-10-PCS
0NW00JZ	Revision of Synthetic Substitute in Skull, Open Approach	PX	ICD-10-PCS
0NW00KZ	Revision of Nonautologous Tissue Substitute in Skull, Open Approach	PX	ICD-10-PCS
0NW00MZ	Revision of Bone Growth Stimulator in Skull, Open Approach	PX	ICD-10-PCS
0NW00NZ	Revision of Neurostimulator Generator in Skull, Open Approach	PX	ICD-10-PCS
0NW00SZ	Revision of Hearing Device in Skull, Open Approach	PX	ICD-10-PCS
0NW030Z	Revision of Drainage Device in Skull, Percutaneous Approach	PX	ICD-10-PCS
0NW033Z	Revision of Infusion Device in Skull, Percutaneous Approach	PX	ICD-10-PCS
0NW034Z	Revision of Internal Fixation Device in Skull, Percutaneous Approach	PX	ICD-10-PCS
0NW035Z	Revision of External Fixation Device in Skull, Percutaneous Approach	PX	ICD-10-PCS
0NW037Z	Revision of Autologous Tissue Substitute in Skull, Percutaneous Approach	PX	ICD-10-PCS
0NW03JZ	Revision of Synthetic Substitute in Skull, Percutaneous Approach	PX	ICD-10-PCS
0NW03KZ	Revision of Nonautologous Tissue Substitute in Skull, Percutaneous Approach	PX	ICD-10-PCS
0NW03MZ	Revision of Bone Growth Stimulator in Skull, Percutaneous Approach	PX	ICD-10-PCS
0NW03SZ	Revision of Hearing Device in Skull, Percutaneous Approach	PX	ICD-10-PCS
0NW040Z	Revision of Drainage Device in Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NW043Z	Revision of Infusion Device in Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NW044Z	Revision of Internal Fixation Device in Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NW045Z	Revision of External Fixation Device in Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NW047Z	Revision of Autologous Tissue Substitute in Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NW04JZ	Revision of Synthetic Substitute in Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NW04KZ	Revision of Nonautologous Tissue Substitute in Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NW04MZ	Revision of Bone Growth Stimulator in Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NW04SZ	Revision of Hearing Device in Skull, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWB00Z	Revision of Drainage Device in Nasal Bone, Open Approach	PX	ICD-10-PCS
0NWB04Z	Revision of Internal Fixation Device in Nasal Bone, Open Approach	PX	ICD-10-PCS
0NWB05Z	Revision of External Fixation Device in Nasal Bone, Open Approach	PX	ICD-10-PCS
0NWB07Z	Revision of Autologous Tissue Substitute in Nasal Bone, Open Approach	PX	ICD-10-PCS
0NWB0JZ	Revision of Synthetic Substitute in Nasal Bone, Open Approach	PX	ICD-10-PCS
0NWB0KZ	Revision of Nonautologous Tissue Substitute in Nasal Bone, Open Approach	PX	ICD-10-PCS
0NWB0MZ	Revision of Bone Growth Stimulator in Nasal Bone, Open Approach	PX	ICD-10-PCS
0NWB40Z	Revision of Drainage Device in Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWB44Z	Revision of Internal Fixation Device in Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWB45Z	Revision of External Fixation Device in Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWB47Z	Revision of Autologous Tissue Substitute in Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWB4JZ	Revision of Synthetic Substitute in Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWB4KZ	Revision of Nonautologous Tissue Substitute in Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWB4MZ	Revision of Bone Growth Stimulator in Nasal Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWW00Z	Revision of Drainage Device in Facial Bone, Open Approach	PX	ICD-10-PCS
0NWW04Z	Revision of Internal Fixation Device in Facial Bone, Open Approach	PX	ICD-10-PCS
0NWW05Z	Revision of External Fixation Device in Facial Bone, Open Approach	PX	ICD-10-PCS
0NWW07Z	Revision of Autologous Tissue Substitute in Facial Bone, Open Approach	PX	ICD-10-PCS
0NWW0JZ	Revision of Synthetic Substitute in Facial Bone, Open Approach	PX	ICD-10-PCS
0NWW0KZ	Revision of Nonautologous Tissue Substitute in Facial Bone, Open Approach	PX	ICD-10-PCS
0NWW0MZ	Revision of Bone Growth Stimulator in Facial Bone, Open Approach	PX	ICD-10-PCS
0NWW30Z	Revision of Drainage Device in Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NWW34Z	Revision of Internal Fixation Device in Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NWW35Z	Revision of External Fixation Device in Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NWW37Z	Revision of Autologous Tissue Substitute in Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NWW3JZ	Revision of Synthetic Substitute in Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NWW3KZ	Revision of Nonautologous Tissue Substitute in Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NWW3MZ	Revision of Bone Growth Stimulator in Facial Bone, Percutaneous Approach	PX	ICD-10-PCS
0NWW40Z	Revision of Drainage Device in Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0NWW44Z	Revision of Internal Fixation Device in Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWW45Z	Revision of External Fixation Device in Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWW47Z	Revision of Autologous Tissue Substitute in Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWW4JZ	Revision of Synthetic Substitute in Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWW4KZ	Revision of Nonautologous Tissue Substitute in Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0NWW4MZ	Revision of Bone Growth Stimulator in Facial Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P500ZZ	Destruction of Sternum, Open Approach	PX	ICD-10-PCS
0P503ZZ	Destruction of Sternum, Percutaneous Approach	PX	ICD-10-PCS
0P504ZZ	Destruction of Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P510ZZ	Destruction of 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0P513ZZ	Destruction of 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0P514ZZ	Destruction of 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P520ZZ	Destruction of 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0P523ZZ	Destruction of 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0P524ZZ	Destruction of 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P530Z3	Destruction of Cervical Vertebra using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0P530ZZ	Destruction of Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0P533Z3	Destruction of Cervical Vertebra using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0P533ZZ	Destruction of Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0P534Z3	Destruction of Cervical Vertebra using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P534ZZ	Destruction of Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P540Z3	Destruction of Thoracic Vertebra using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0P540ZZ	Destruction of Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0P543Z3	Destruction of Thoracic Vertebra using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0P543ZZ	Destruction of Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0P544Z3	Destruction of Thoracic Vertebra using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P544ZZ	Destruction of Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P550ZZ	Destruction of Right Scapula, Open Approach	PX	ICD-10-PCS
0P553ZZ	Destruction of Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0P554ZZ	Destruction of Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P560ZZ	Destruction of Left Scapula, Open Approach	PX	ICD-10-PCS
0P563ZZ	Destruction of Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0P564ZZ	Destruction of Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0P570ZZ	Destruction of Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0P573ZZ	Destruction of Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0P574ZZ	Destruction of Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P580ZZ	Destruction of Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0P583ZZ	Destruction of Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0P584ZZ	Destruction of Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P590ZZ	Destruction of Right Clavicle, Open Approach	PX	ICD-10-PCS
0P593ZZ	Destruction of Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0P594ZZ	Destruction of Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5B0ZZ	Destruction of Left Clavicle, Open Approach	PX	ICD-10-PCS
0P5B3ZZ	Destruction of Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0P5B4ZZ	Destruction of Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5C0ZZ	Destruction of Right Humeral Head, Open Approach	PX	ICD-10-PCS
0P5C3ZZ	Destruction of Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0P5C4ZZ	Destruction of Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5D0ZZ	Destruction of Left Humeral Head, Open Approach	PX	ICD-10-PCS
0P5D3ZZ	Destruction of Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0P5D4ZZ	Destruction of Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5F0ZZ	Destruction of Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0P5F3ZZ	Destruction of Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0P5F4ZZ	Destruction of Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5G0ZZ	Destruction of Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0P5G3ZZ	Destruction of Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0P5G4ZZ	Destruction of Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5H0ZZ	Destruction of Right Radius, Open Approach	PX	ICD-10-PCS
0P5H3ZZ	Destruction of Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0P5H4ZZ	Destruction of Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5J0ZZ	Destruction of Left Radius, Open Approach	PX	ICD-10-PCS
0P5J3ZZ	Destruction of Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0P5J4ZZ	Destruction of Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5K0ZZ	Destruction of Right Ulna, Open Approach	PX	ICD-10-PCS
0P5K3ZZ	Destruction of Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0P5K4ZZ	Destruction of Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5L0ZZ	Destruction of Left Ulna, Open Approach	PX	ICD-10-PCS
0P5L3ZZ	Destruction of Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0P5L4ZZ	Destruction of Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5M0ZZ	Destruction of Right Carpal, Open Approach	PX	ICD-10-PCS
0P5M3ZZ	Destruction of Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0P5M4ZZ	Destruction of Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5N0ZZ	Destruction of Left Carpal, Open Approach	PX	ICD-10-PCS
0P5N3ZZ	Destruction of Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0P5N4ZZ	Destruction of Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5P0ZZ	Destruction of Right Metacarpal, Open Approach	PX	ICD-10-PCS
0P5P3ZZ	Destruction of Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0P5P4ZZ	Destruction of Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0P5Q0ZZ	Destruction of Left Metacarpal, Open Approach	PX	ICD-10-PCS
0P5Q3ZZ	Destruction of Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0P5Q4ZZ	Destruction of Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5R0ZZ	Destruction of Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0P5R3ZZ	Destruction of Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0P5R4ZZ	Destruction of Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5S0ZZ	Destruction of Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0P5S3ZZ	Destruction of Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0P5S4ZZ	Destruction of Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5T0ZZ	Destruction of Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0P5T3ZZ	Destruction of Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0P5T4ZZ	Destruction of Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P5V0ZZ	Destruction of Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0P5V3ZZ	Destruction of Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0P5V4ZZ	Destruction of Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P800ZZ	Division of Sternum, Open Approach	PX	ICD-10-PCS
0P803ZZ	Division of Sternum, Percutaneous Approach	PX	ICD-10-PCS
0P804ZZ	Division of Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P810ZZ	Division of 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0P813ZZ	Division of 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0P814ZZ	Division of 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P820ZZ	Division of 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0P823ZZ	Division of 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0P824ZZ	Division of 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P830ZZ	Division of Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0P833ZZ	Division of Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0P834ZZ	Division of Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P840ZZ	Division of Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0P843ZZ	Division of Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0P844ZZ	Division of Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P850ZZ	Division of Right Scapula, Open Approach	PX	ICD-10-PCS
0P853ZZ	Division of Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0P854ZZ	Division of Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P860ZZ	Division of Left Scapula, Open Approach	PX	ICD-10-PCS
0P863ZZ	Division of Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0P864ZZ	Division of Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P870ZZ	Division of Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0P873ZZ	Division of Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0P874ZZ	Division of Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P880ZZ	Division of Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0P883ZZ	Division of Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0P884ZZ	Division of Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P890ZZ	Division of Right Clavicle, Open Approach	PX	ICD-10-PCS
0P893ZZ	Division of Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0P894ZZ	Division of Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0P8B0ZZ	Division of Left Clavicle, Open Approach	PX	ICD-10-PCS
0P8B3ZZ	Division of Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0P8B4ZZ	Division of Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8C0ZZ	Division of Right Humeral Head, Open Approach	PX	ICD-10-PCS
0P8C3ZZ	Division of Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0P8C4ZZ	Division of Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8D0ZZ	Division of Left Humeral Head, Open Approach	PX	ICD-10-PCS
0P8D3ZZ	Division of Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0P8D4ZZ	Division of Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8F0ZZ	Division of Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0P8F3ZZ	Division of Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0P8F4ZZ	Division of Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8G0ZZ	Division of Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0P8G3ZZ	Division of Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0P8G4ZZ	Division of Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8H0ZZ	Division of Right Radius, Open Approach	PX	ICD-10-PCS
0P8H3ZZ	Division of Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0P8H4ZZ	Division of Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8J0ZZ	Division of Left Radius, Open Approach	PX	ICD-10-PCS
0P8J3ZZ	Division of Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0P8J4ZZ	Division of Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8K0ZZ	Division of Right Ulna, Open Approach	PX	ICD-10-PCS
0P8K3ZZ	Division of Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0P8K4ZZ	Division of Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8L0ZZ	Division of Left Ulna, Open Approach	PX	ICD-10-PCS
0P8L3ZZ	Division of Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0P8L4ZZ	Division of Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8M0ZZ	Division of Right Carpal, Open Approach	PX	ICD-10-PCS
0P8M3ZZ	Division of Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0P8M4ZZ	Division of Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8N0ZZ	Division of Left Carpal, Open Approach	PX	ICD-10-PCS
0P8N3ZZ	Division of Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0P8N4ZZ	Division of Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8P0ZZ	Division of Right Metacarpal, Open Approach	PX	ICD-10-PCS
0P8P3ZZ	Division of Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0P8P4ZZ	Division of Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8Q0ZZ	Division of Left Metacarpal, Open Approach	PX	ICD-10-PCS
0P8Q3ZZ	Division of Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0P8Q4ZZ	Division of Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8R0ZZ	Division of Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0P8R3ZZ	Division of Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0P8R4ZZ	Division of Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8S0ZZ	Division of Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0P8S3ZZ	Division of Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0P8S4ZZ	Division of Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0P8T0ZZ	Division of Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0P8T3ZZ	Division of Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0P8T4ZZ	Division of Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P8V0ZZ	Division of Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0P8V3ZZ	Division of Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0P8V4ZZ	Division of Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9000Z	Drainage of Sternum with Drainage Device, Open Approach	PX	ICD-10-PCS
0P900ZZ	Drainage of Sternum, Open Approach	PX	ICD-10-PCS
0P9040Z	Drainage of Sternum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P904ZZ	Drainage of Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9100Z	Drainage of 1 to 2 Ribs with Drainage Device, Open Approach	PX	ICD-10-PCS
0P910ZZ	Drainage of 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0P9140Z	Drainage of 1 to 2 Ribs with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P914ZZ	Drainage of 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9200Z	Drainage of 3 or More Ribs with Drainage Device, Open Approach	PX	ICD-10-PCS
0P920ZZ	Drainage of 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0P9240Z	Drainage of 3 or More Ribs with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P924ZZ	Drainage of 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9300Z	Drainage of Cervical Vertebra with Drainage Device, Open Approach	PX	ICD-10-PCS
0P930ZZ	Drainage of Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0P9340Z	Drainage of Cervical Vertebra with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P934ZZ	Drainage of Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9400Z	Drainage of Thoracic Vertebra with Drainage Device, Open Approach	PX	ICD-10-PCS
0P940ZZ	Drainage of Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0P9440Z	Drainage of Thoracic Vertebra with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P944ZZ	Drainage of Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9500Z	Drainage of Right Scapula with Drainage Device, Open Approach	PX	ICD-10-PCS
0P950ZZ	Drainage of Right Scapula, Open Approach	PX	ICD-10-PCS
0P9540Z	Drainage of Right Scapula with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P954ZZ	Drainage of Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9600Z	Drainage of Left Scapula with Drainage Device, Open Approach	PX	ICD-10-PCS
0P960ZZ	Drainage of Left Scapula, Open Approach	PX	ICD-10-PCS
0P9640Z	Drainage of Left Scapula with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P964ZZ	Drainage of Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9700Z	Drainage of Right Glenoid Cavity with Drainage Device, Open Approach	PX	ICD-10-PCS
0P970ZZ	Drainage of Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0P9740Z	Drainage of Right Glenoid Cavity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P974ZZ	Drainage of Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0P9800Z	Drainage of Left Glenoid Cavity with Drainage Device, Open Approach	PX	ICD-10-PCS
0P980ZZ	Drainage of Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0P9840Z	Drainage of Left Glenoid Cavity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P984ZZ	Drainage of Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9900Z	Drainage of Right Clavicle with Drainage Device, Open Approach	PX	ICD-10-PCS
0P990ZZ	Drainage of Right Clavicle, Open Approach	PX	ICD-10-PCS
0P9940Z	Drainage of Right Clavicle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P994ZZ	Drainage of Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9B00Z	Drainage of Left Clavicle with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9B0ZZ	Drainage of Left Clavicle, Open Approach	PX	ICD-10-PCS
0P9B40Z	Drainage of Left Clavicle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9B4ZZ	Drainage of Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9C00Z	Drainage of Right Humeral Head with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9C0ZZ	Drainage of Right Humeral Head, Open Approach	PX	ICD-10-PCS
0P9C40Z	Drainage of Right Humeral Head with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9C4ZZ	Drainage of Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9D00Z	Drainage of Left Humeral Head with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9D0ZZ	Drainage of Left Humeral Head, Open Approach	PX	ICD-10-PCS
0P9D40Z	Drainage of Left Humeral Head with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9D4ZZ	Drainage of Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9F00Z	Drainage of Right Humeral Shaft with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9F0ZZ	Drainage of Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0P9F40Z	Drainage of Right Humeral Shaft with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9F4ZZ	Drainage of Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9G00Z	Drainage of Left Humeral Shaft with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9G0ZZ	Drainage of Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0P9G40Z	Drainage of Left Humeral Shaft with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9G4ZZ	Drainage of Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9H00Z	Drainage of Right Radius with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9H0ZZ	Drainage of Right Radius, Open Approach	PX	ICD-10-PCS
0P9H40Z	Drainage of Right Radius with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9H4ZZ	Drainage of Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9J00Z	Drainage of Left Radius with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9J0ZZ	Drainage of Left Radius, Open Approach	PX	ICD-10-PCS
0P9J40Z	Drainage of Left Radius with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9J4ZZ	Drainage of Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0P9K00Z	Drainage of Right Ulna with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9K0ZZ	Drainage of Right Ulna, Open Approach	PX	ICD-10-PCS
0P9K40Z	Drainage of Right Ulna with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9K4ZZ	Drainage of Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9L00Z	Drainage of Left Ulna with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9L0ZZ	Drainage of Left Ulna, Open Approach	PX	ICD-10-PCS
0P9L40Z	Drainage of Left Ulna with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9L4ZZ	Drainage of Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9M00Z	Drainage of Right Carpal with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9M0ZZ	Drainage of Right Carpal, Open Approach	PX	ICD-10-PCS
0P9M40Z	Drainage of Right Carpal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9M4ZZ	Drainage of Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9N00Z	Drainage of Left Carpal with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9N0ZZ	Drainage of Left Carpal, Open Approach	PX	ICD-10-PCS
0P9N40Z	Drainage of Left Carpal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9N4ZZ	Drainage of Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9P00Z	Drainage of Right Metacarpal with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9P0ZZ	Drainage of Right Metacarpal, Open Approach	PX	ICD-10-PCS
0P9P40Z	Drainage of Right Metacarpal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9P4ZZ	Drainage of Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9Q00Z	Drainage of Left Metacarpal with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9Q0ZZ	Drainage of Left Metacarpal, Open Approach	PX	ICD-10-PCS
0P9Q40Z	Drainage of Left Metacarpal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9Q4ZZ	Drainage of Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9R00Z	Drainage of Right Thumb Phalanx with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9R0ZZ	Drainage of Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0P9R40Z	Drainage of Right Thumb Phalanx with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9R4ZZ	Drainage of Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9S00Z	Drainage of Left Thumb Phalanx with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9S0ZZ	Drainage of Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0P9S40Z	Drainage of Left Thumb Phalanx with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9S4ZZ	Drainage of Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9T00Z	Drainage of Right Finger Phalanx with Drainage Device, Open Approach	PX	ICD-10-PCS
0P9T0ZZ	Drainage of Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0P9T40Z	Drainage of Right Finger Phalanx with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9T4ZZ	Drainage of Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9V00Z	Drainage of Left Finger Phalanx with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0P9V0ZZ	Drainage of Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0P9V40Z	Drainage of Left Finger Phalanx with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0P9V4ZZ	Drainage of Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PB00ZZ	Excision of Sternum, Open Approach	PX	ICD-10-PCS
0PB03ZZ	Excision of Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PB04ZZ	Excision of Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PB10ZZ	Excision of 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PB13ZZ	Excision of 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PB14ZZ	Excision of 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PB20ZZ	Excision of 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PB23ZZ	Excision of 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PB24ZZ	Excision of 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PB30ZZ	Excision of Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PB33ZZ	Excision of Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PB34ZZ	Excision of Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PB40ZZ	Excision of Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PB43ZZ	Excision of Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PB44ZZ	Excision of Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PB50ZZ	Excision of Right Scapula, Open Approach	PX	ICD-10-PCS
0PB53ZZ	Excision of Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PB54ZZ	Excision of Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PB60ZZ	Excision of Left Scapula, Open Approach	PX	ICD-10-PCS
0PB63ZZ	Excision of Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PB64ZZ	Excision of Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PB70ZZ	Excision of Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PB73ZZ	Excision of Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PB74ZZ	Excision of Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PB80ZZ	Excision of Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PB83ZZ	Excision of Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PB84ZZ	Excision of Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PB90ZZ	Excision of Right Clavicle, Open Approach	PX	ICD-10-PCS
0PB93ZZ	Excision of Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PB94ZZ	Excision of Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBB0ZZ	Excision of Left Clavicle, Open Approach	PX	ICD-10-PCS
0PBB3ZZ	Excision of Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PBB4ZZ	Excision of Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBC0ZZ	Excision of Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PBC3ZZ	Excision of Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PBC4ZZ	Excision of Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBD0ZZ	Excision of Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PBD3ZZ	Excision of Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PBD4ZZ	Excision of Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBF0ZZ	Excision of Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PBF3ZZ	Excision of Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PBF4ZZ	Excision of Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBG0ZZ	Excision of Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PBG3ZZ	Excision of Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PBG4ZZ	Excision of Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBH0ZZ	Excision of Right Radius, Open Approach	PX	ICD-10-PCS
0PBH3ZZ	Excision of Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PBH4ZZ	Excision of Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBJ0ZZ	Excision of Left Radius, Open Approach	PX	ICD-10-PCS
0PBJ3ZZ	Excision of Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PBJ4ZZ	Excision of Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBK0ZZ	Excision of Right Ulna, Open Approach	PX	ICD-10-PCS
0PBK3ZZ	Excision of Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PBK4ZZ	Excision of Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBL0ZZ	Excision of Left Ulna, Open Approach	PX	ICD-10-PCS
0PBL3ZZ	Excision of Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PBL4ZZ	Excision of Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBM0ZZ	Excision of Right Carpal, Open Approach	PX	ICD-10-PCS
0PBM3ZZ	Excision of Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PBM4ZZ	Excision of Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBN0ZZ	Excision of Left Carpal, Open Approach	PX	ICD-10-PCS
0PBN3ZZ	Excision of Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PBN4ZZ	Excision of Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBP0ZZ	Excision of Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PBP3ZZ	Excision of Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PBP4ZZ	Excision of Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBQ0ZZ	Excision of Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PBQ3ZZ	Excision of Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PBQ4ZZ	Excision of Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBR0ZZ	Excision of Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PBR3ZZ	Excision of Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PBR4ZZ	Excision of Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBS0ZZ	Excision of Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PBS3ZZ	Excision of Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PBS4ZZ	Excision of Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBT0ZZ	Excision of Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PBT3ZZ	Excision of Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PBT4ZZ	Excision of Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PBV0ZZ	Excision of Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PBV3ZZ	Excision of Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PBV4ZZ	Excision of Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PC00ZZ	Extirpation of Matter from Sternum, Open Approach	PX	ICD-10-PCS
0PC03ZZ	Extirpation of Matter from Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PC04ZZ	Extirpation of Matter from Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PC10ZZ	Extirpation of Matter from 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PC13ZZ	Extirpation of Matter from 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PC14ZZ	Extirpation of Matter from 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PC20ZZ	Extirpation of Matter from 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PC23ZZ	Extirpation of Matter from 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PC24ZZ	Extirpation of Matter from 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PC30ZZ	Extirpation of Matter from Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PC33ZZ	Extirpation of Matter from Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PC34ZZ	Extirpation of Matter from Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PC40ZZ	Extirpation of Matter from Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PC43ZZ	Extirpation of Matter from Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PC44ZZ	Extirpation of Matter from Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PC50ZZ	Extirpation of Matter from Right Scapula, Open Approach	PX	ICD-10-PCS
0PC53ZZ	Extirpation of Matter from Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PC54ZZ	Extirpation of Matter from Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PC60ZZ	Extirpation of Matter from Left Scapula, Open Approach	PX	ICD-10-PCS
0PC63ZZ	Extirpation of Matter from Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PC64ZZ	Extirpation of Matter from Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PC70ZZ	Extirpation of Matter from Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PC73ZZ	Extirpation of Matter from Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PC74ZZ	Extirpation of Matter from Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PC80ZZ	Extirpation of Matter from Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PC83ZZ	Extirpation of Matter from Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PC84ZZ	Extirpation of Matter from Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PC90ZZ	Extirpation of Matter from Right Clavicle, Open Approach	PX	ICD-10-PCS
0PC93ZZ	Extirpation of Matter from Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PC94ZZ	Extirpation of Matter from Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCB0ZZ	Extirpation of Matter from Left Clavicle, Open Approach	PX	ICD-10-PCS
0PCB3ZZ	Extirpation of Matter from Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PCB4ZZ	Extirpation of Matter from Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCC0ZZ	Extirpation of Matter from Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PCC3ZZ	Extirpation of Matter from Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PCC4ZZ	Extirpation of Matter from Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCD0ZZ	Extirpation of Matter from Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PCD3ZZ	Extirpation of Matter from Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PCD4ZZ	Extirpation of Matter from Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCF0ZZ	Extirpation of Matter from Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PCF3ZZ	Extirpation of Matter from Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PCF4ZZ	Extirpation of Matter from Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCG0ZZ	Extirpation of Matter from Left Humeral Shaft, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PCG3ZZ	Extirpation of Matter from Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PCG4ZZ	Extirpation of Matter from Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCH0ZZ	Extirpation of Matter from Right Radius, Open Approach	PX	ICD-10-PCS
0PCH3ZZ	Extirpation of Matter from Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PCH4ZZ	Extirpation of Matter from Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCJ0ZZ	Extirpation of Matter from Left Radius, Open Approach	PX	ICD-10-PCS
0PCJ3ZZ	Extirpation of Matter from Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PCJ4ZZ	Extirpation of Matter from Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCK0ZZ	Extirpation of Matter from Right Ulna, Open Approach	PX	ICD-10-PCS
0PCK3ZZ	Extirpation of Matter from Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PCK4ZZ	Extirpation of Matter from Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCL0ZZ	Extirpation of Matter from Left Ulna, Open Approach	PX	ICD-10-PCS
0PCL3ZZ	Extirpation of Matter from Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PCL4ZZ	Extirpation of Matter from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCM0ZZ	Extirpation of Matter from Right Carpal, Open Approach	PX	ICD-10-PCS
0PCM3ZZ	Extirpation of Matter from Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PCM4ZZ	Extirpation of Matter from Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCN0ZZ	Extirpation of Matter from Left Carpal, Open Approach	PX	ICD-10-PCS
0PCN3ZZ	Extirpation of Matter from Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PCN4ZZ	Extirpation of Matter from Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCP0ZZ	Extirpation of Matter from Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PCP3ZZ	Extirpation of Matter from Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PCP4ZZ	Extirpation of Matter from Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCQ0ZZ	Extirpation of Matter from Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PCQ3ZZ	Extirpation of Matter from Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PCQ4ZZ	Extirpation of Matter from Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCR0ZZ	Extirpation of Matter from Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PCR3ZZ	Extirpation of Matter from Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PCR4ZZ	Extirpation of Matter from Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCS0ZZ	Extirpation of Matter from Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PCS3ZZ	Extirpation of Matter from Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PCS4ZZ	Extirpation of Matter from Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCT0ZZ	Extirpation of Matter from Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PCT3ZZ	Extirpation of Matter from Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PCT4ZZ	Extirpation of Matter from Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PCV0ZZ	Extirpation of Matter from Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PCV3ZZ	Extirpation of Matter from Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PCV4ZZ	Extirpation of Matter from Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PD00ZZ	Extraction of Sternum, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PD10ZZ	Extraction of 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PD20ZZ	Extraction of 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PD30ZZ	Extraction of Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PD40ZZ	Extraction of Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PD50ZZ	Extraction of Right Scapula, Open Approach	PX	ICD-10-PCS
0PD60ZZ	Extraction of Left Scapula, Open Approach	PX	ICD-10-PCS
0PD70ZZ	Extraction of Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PD80ZZ	Extraction of Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PD90ZZ	Extraction of Right Clavicle, Open Approach	PX	ICD-10-PCS
0PDB0ZZ	Extraction of Left Clavicle, Open Approach	PX	ICD-10-PCS
0PDC0ZZ	Extraction of Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PDD0ZZ	Extraction of Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PDF0ZZ	Extraction of Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PDG0ZZ	Extraction of Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PDH0ZZ	Extraction of Right Radius, Open Approach	PX	ICD-10-PCS
0PDJ0ZZ	Extraction of Left Radius, Open Approach	PX	ICD-10-PCS
0PDK0ZZ	Extraction of Right Ulna, Open Approach	PX	ICD-10-PCS
0PDL0ZZ	Extraction of Left Ulna, Open Approach	PX	ICD-10-PCS
0PDM0ZZ	Extraction of Right Carpal, Open Approach	PX	ICD-10-PCS
0PDN0ZZ	Extraction of Left Carpal, Open Approach	PX	ICD-10-PCS
0PDP0ZZ	Extraction of Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PDQ0ZZ	Extraction of Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PDR0ZZ	Extraction of Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PDS0ZZ	Extraction of Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PDT0ZZ	Extraction of Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PDV0ZZ	Extraction of Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PH000Z	Insertion of Rigid Plate Internal Fixation Device into Sternum, Open Approach	PX	ICD-10-PCS
0PH004Z	Insertion of Internal Fixation Device into Sternum, Open Approach	PX	ICD-10-PCS
0PH030Z	Insertion of Rigid Plate Internal Fixation Device into Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PH034Z	Insertion of Internal Fixation Device into Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PH040Z	Insertion of Rigid Plate Internal Fixation Device into Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PH044Z	Insertion of Internal Fixation Device into Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PH104Z	Insertion of Internal Fixation Device into 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PH134Z	Insertion of Internal Fixation Device into 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PH144Z	Insertion of Internal Fixation Device into 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PH204Z	Insertion of Internal Fixation Device into 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PH234Z	Insertion of Internal Fixation Device into 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PH244Z	Insertion of Internal Fixation Device into 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PH304Z	Insertion of Internal Fixation Device into Cervical Vertebra, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PH334Z	Insertion of Internal Fixation Device into Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PH344Z	Insertion of Internal Fixation Device into Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PH404Z	Insertion of Internal Fixation Device into Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PH434Z	Insertion of Internal Fixation Device into Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PH444Z	Insertion of Internal Fixation Device into Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PH504Z	Insertion of Internal Fixation Device into Right Scapula, Open Approach	PX	ICD-10-PCS
0PH534Z	Insertion of Internal Fixation Device into Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PH544Z	Insertion of Internal Fixation Device into Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PH604Z	Insertion of Internal Fixation Device into Left Scapula, Open Approach	PX	ICD-10-PCS
0PH634Z	Insertion of Internal Fixation Device into Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PH644Z	Insertion of Internal Fixation Device into Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PH704Z	Insertion of Internal Fixation Device into Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PH734Z	Insertion of Internal Fixation Device into Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PH744Z	Insertion of Internal Fixation Device into Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PH804Z	Insertion of Internal Fixation Device into Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PH834Z	Insertion of Internal Fixation Device into Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PH844Z	Insertion of Internal Fixation Device into Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PH904Z	Insertion of Internal Fixation Device into Right Clavicle, Open Approach	PX	ICD-10-PCS
0PH934Z	Insertion of Internal Fixation Device into Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PH944Z	Insertion of Internal Fixation Device into Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHB04Z	Insertion of Internal Fixation Device into Left Clavicle, Open Approach	PX	ICD-10-PCS
0PHB34Z	Insertion of Internal Fixation Device into Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PHB44Z	Insertion of Internal Fixation Device into Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHC04Z	Insertion of Internal Fixation Device into Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PHC05Z	Insertion of External Fixation Device into Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PHC06Z	Insertion of Intramedullary Internal Fixation Device into Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PHC08Z	Insertion of Limb Lengthening External Fixation Device into Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PHC0BZ	Insertion of Monoplanar External Fixation Device into Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PHC0CZ	Insertion of Ring External Fixation Device into Right Humeral Head, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PHC0DZ	Insertion of Hybrid External Fixation Device into Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PHC34Z	Insertion of Internal Fixation Device into Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHC35Z	Insertion of External Fixation Device into Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHC36Z	Insertion of Intramedullary Internal Fixation Device into Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHC3BZ	Insertion of Monoplanar External Fixation Device into Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHC3CZ	Insertion of Ring External Fixation Device into Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHC3DZ	Insertion of Hybrid External Fixation Device into Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHC44Z	Insertion of Internal Fixation Device into Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHC45Z	Insertion of External Fixation Device into Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHC46Z	Insertion of Intramedullary Internal Fixation Device into Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHC48Z	Insertion of Limb Lengthening External Fixation Device into Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHC4BZ	Insertion of Monoplanar External Fixation Device into Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHC4CZ	Insertion of Ring External Fixation Device into Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHC4DZ	Insertion of Hybrid External Fixation Device into Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHD04Z	Insertion of Internal Fixation Device into Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PHD05Z	Insertion of External Fixation Device into Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PHD06Z	Insertion of Intramedullary Internal Fixation Device into Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PHD08Z	Insertion of Limb Lengthening External Fixation Device into Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PHD0BZ	Insertion of Monoplanar External Fixation Device into Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PHD0CZ	Insertion of Ring External Fixation Device into Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PHD0DZ	Insertion of Hybrid External Fixation Device into Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PHD34Z	Insertion of Internal Fixation Device into Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHD35Z	Insertion of External Fixation Device into Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PHD36Z	Insertion of Intramedullary Internal Fixation Device into Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHD3BZ	Insertion of Monoplanar External Fixation Device into Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHD3CZ	Insertion of Ring External Fixation Device into Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHD3DZ	Insertion of Hybrid External Fixation Device into Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PHD44Z	Insertion of Internal Fixation Device into Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHD45Z	Insertion of External Fixation Device into Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHD46Z	Insertion of Intramedullary Internal Fixation Device into Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHD48Z	Insertion of Limb Lengthening External Fixation Device into Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHD4BZ	Insertion of Monoplanar External Fixation Device into Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHD4CZ	Insertion of Ring External Fixation Device into Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHD4DZ	Insertion of Hybrid External Fixation Device into Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHF04Z	Insertion of Internal Fixation Device into Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHF05Z	Insertion of External Fixation Device into Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHF06Z	Insertion of Intramedullary Internal Fixation Device into Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHF07Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHF08Z	Insertion of Limb Lengthening External Fixation Device into Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHF0BZ	Insertion of Monoplanar External Fixation Device into Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHF0CZ	Insertion of Ring External Fixation Device into Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHF0DZ	Insertion of Hybrid External Fixation Device into Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHF34Z	Insertion of Internal Fixation Device into Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHF35Z	Insertion of External Fixation Device into Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHF36Z	Insertion of Intramedullary Internal Fixation Device into Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHF37Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PHF3BZ	Insertion of Monoplanar External Fixation Device into Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHF3CZ	Insertion of Ring External Fixation Device into Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHF3DZ	Insertion of Hybrid External Fixation Device into Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHF44Z	Insertion of Internal Fixation Device into Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHF45Z	Insertion of External Fixation Device into Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHF46Z	Insertion of Intramedullary Internal Fixation Device into Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHF47Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHF48Z	Insertion of Limb Lengthening External Fixation Device into Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHF4BZ	Insertion of Monoplanar External Fixation Device into Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHF4CZ	Insertion of Ring External Fixation Device into Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHF4DZ	Insertion of Hybrid External Fixation Device into Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHG04Z	Insertion of Internal Fixation Device into Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHG05Z	Insertion of External Fixation Device into Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHG06Z	Insertion of Intramedullary Internal Fixation Device into Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHG07Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHG08Z	Insertion of Limb Lengthening External Fixation Device into Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHG0BZ	Insertion of Monoplanar External Fixation Device into Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHG0CZ	Insertion of Ring External Fixation Device into Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHG0DZ	Insertion of Hybrid External Fixation Device into Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PHG34Z	Insertion of Internal Fixation Device into Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHG35Z	Insertion of External Fixation Device into Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHG36Z	Insertion of Intramedullary Internal Fixation Device into Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHG37Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PHG3BZ	Insertion of Monoplanar External Fixation Device into Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHG3CZ	Insertion of Ring External Fixation Device into Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHG3DZ	Insertion of Hybrid External Fixation Device into Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PHG44Z	Insertion of Internal Fixation Device into Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHG45Z	Insertion of External Fixation Device into Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHG46Z	Insertion of Intramedullary Internal Fixation Device into Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHG47Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHG48Z	Insertion of Limb Lengthening External Fixation Device into Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHG4BZ	Insertion of Monoplanar External Fixation Device into Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHG4CZ	Insertion of Ring External Fixation Device into Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHG4DZ	Insertion of Hybrid External Fixation Device into Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHH04Z	Insertion of Internal Fixation Device into Right Radius, Open Approach	PX	ICD-10-PCS
0PHH05Z	Insertion of External Fixation Device into Right Radius, Open Approach	PX	ICD-10-PCS
0PHH06Z	Insertion of Intramedullary Internal Fixation Device into Right Radius, Open Approach	PX	ICD-10-PCS
0PHH08Z	Insertion of Limb Lengthening External Fixation Device into Right Radius, Open Approach	PX	ICD-10-PCS
0PHH0BZ	Insertion of Monoplanar External Fixation Device into Right Radius, Open Approach	PX	ICD-10-PCS
0PHH0CZ	Insertion of Ring External Fixation Device into Right Radius, Open Approach	PX	ICD-10-PCS
0PHH0DZ	Insertion of Hybrid External Fixation Device into Right Radius, Open Approach	PX	ICD-10-PCS
0PHH34Z	Insertion of Internal Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHH35Z	Insertion of External Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHH36Z	Insertion of Intramedullary Internal Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHH3BZ	Insertion of Monoplanar External Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHH3CZ	Insertion of Ring External Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHH3DZ	Insertion of Hybrid External Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHH44Z	Insertion of Internal Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PHH45Z	Insertion of External Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHH46Z	Insertion of Intramedullary Internal Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHH48Z	Insertion of Limb Lengthening External Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHH4BZ	Insertion of Monoplanar External Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHH4CZ	Insertion of Ring External Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHH4DZ	Insertion of Hybrid External Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHJ04Z	Insertion of Internal Fixation Device into Left Radius, Open Approach	PX	ICD-10-PCS
0PHJ05Z	Insertion of External Fixation Device into Left Radius, Open Approach	PX	ICD-10-PCS
0PHJ06Z	Insertion of Intramedullary Internal Fixation Device into Left Radius, Open Approach	PX	ICD-10-PCS
0PHJ08Z	Insertion of Limb Lengthening External Fixation Device into Left Radius, Open Approach	PX	ICD-10-PCS
0PHJ0BZ	Insertion of Monoplanar External Fixation Device into Left Radius, Open Approach	PX	ICD-10-PCS
0PHJ0CZ	Insertion of Ring External Fixation Device into Left Radius, Open Approach	PX	ICD-10-PCS
0PHJ0DZ	Insertion of Hybrid External Fixation Device into Left Radius, Open Approach	PX	ICD-10-PCS
0PHJ34Z	Insertion of Internal Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHJ35Z	Insertion of External Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHJ36Z	Insertion of Intramedullary Internal Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHJ3BZ	Insertion of Monoplanar External Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHJ3CZ	Insertion of Ring External Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHJ3DZ	Insertion of Hybrid External Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PHJ44Z	Insertion of Internal Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHJ45Z	Insertion of External Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHJ46Z	Insertion of Intramedullary Internal Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHJ48Z	Insertion of Limb Lengthening External Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHJ4BZ	Insertion of Monoplanar External Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHJ4CZ	Insertion of Ring External Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PHJ4DZ	Insertion of Hybrid External Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHK04Z	Insertion of Internal Fixation Device into Right Ulna, Open Approach	PX	ICD-10-PCS
0PHK05Z	Insertion of External Fixation Device into Right Ulna, Open Approach	PX	ICD-10-PCS
0PHK06Z	Insertion of Intramedullary Internal Fixation Device into Right Ulna, Open Approach	PX	ICD-10-PCS
0PHK08Z	Insertion of Limb Lengthening External Fixation Device into Right Ulna, Open Approach	PX	ICD-10-PCS
0PHK0BZ	Insertion of Monoplanar External Fixation Device into Right Ulna, Open Approach	PX	ICD-10-PCS
0PHK0CZ	Insertion of Ring External Fixation Device into Right Ulna, Open Approach	PX	ICD-10-PCS
0PHK0DZ	Insertion of Hybrid External Fixation Device into Right Ulna, Open Approach	PX	ICD-10-PCS
0PHK34Z	Insertion of Internal Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHK35Z	Insertion of External Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHK36Z	Insertion of Intramedullary Internal Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHK3BZ	Insertion of Monoplanar External Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHK3CZ	Insertion of Ring External Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHK3DZ	Insertion of Hybrid External Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHK44Z	Insertion of Internal Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHK45Z	Insertion of External Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHK46Z	Insertion of Intramedullary Internal Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHK48Z	Insertion of Limb Lengthening External Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHK4BZ	Insertion of Monoplanar External Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHK4CZ	Insertion of Ring External Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHK4DZ	Insertion of Hybrid External Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHL04Z	Insertion of Internal Fixation Device into Left Ulna, Open Approach	PX	ICD-10-PCS
0PHL05Z	Insertion of External Fixation Device into Left Ulna, Open Approach	PX	ICD-10-PCS
0PHL06Z	Insertion of Intramedullary Internal Fixation Device into Left Ulna, Open Approach	PX	ICD-10-PCS
0PHL08Z	Insertion of Limb Lengthening External Fixation Device into Left Ulna, Open Approach	PX	ICD-10-PCS
0PHL0BZ	Insertion of Monoplanar External Fixation Device into Left Ulna, Open Approach	PX	ICD-10-PCS
0PHL0CZ	Insertion of Ring External Fixation Device into Left Ulna, Open Approach	PX	ICD-10-PCS
0PHL0DZ	Insertion of Hybrid External Fixation Device into Left Ulna, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PHL34Z	Insertion of Internal Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHL35Z	Insertion of External Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHL36Z	Insertion of Intramedullary Internal Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHL3BZ	Insertion of Monoplanar External Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHL3CZ	Insertion of Ring External Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHL3DZ	Insertion of Hybrid External Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PHL44Z	Insertion of Internal Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHL45Z	Insertion of External Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHL46Z	Insertion of Intramedullary Internal Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHL48Z	Insertion of Limb Lengthening External Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHL4BZ	Insertion of Monoplanar External Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHL4CZ	Insertion of Ring External Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHL4DZ	Insertion of Hybrid External Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHM04Z	Insertion of Internal Fixation Device into Right Carpal, Open Approach	PX	ICD-10-PCS
0PHM05Z	Insertion of External Fixation Device into Right Carpal, Open Approach	PX	ICD-10-PCS
0PHM34Z	Insertion of Internal Fixation Device into Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PHM35Z	Insertion of External Fixation Device into Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PHM44Z	Insertion of Internal Fixation Device into Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHM45Z	Insertion of External Fixation Device into Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHN04Z	Insertion of Internal Fixation Device into Left Carpal, Open Approach	PX	ICD-10-PCS
0PHN05Z	Insertion of External Fixation Device into Left Carpal, Open Approach	PX	ICD-10-PCS
0PHN34Z	Insertion of Internal Fixation Device into Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PHN35Z	Insertion of External Fixation Device into Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PHN44Z	Insertion of Internal Fixation Device into Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHN45Z	Insertion of External Fixation Device into Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHP04Z	Insertion of Internal Fixation Device into Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PHP05Z	Insertion of External Fixation Device into Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PHP34Z	Insertion of Internal Fixation Device into Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PHP35Z	Insertion of External Fixation Device into Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PHP44Z	Insertion of Internal Fixation Device into Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHP45Z	Insertion of External Fixation Device into Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHQ04Z	Insertion of Internal Fixation Device into Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PHQ05Z	Insertion of External Fixation Device into Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PHQ34Z	Insertion of Internal Fixation Device into Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PHQ35Z	Insertion of External Fixation Device into Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PHQ44Z	Insertion of Internal Fixation Device into Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHQ45Z	Insertion of External Fixation Device into Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHR04Z	Insertion of Internal Fixation Device into Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PHR05Z	Insertion of External Fixation Device into Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PHR34Z	Insertion of Internal Fixation Device into Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PHR35Z	Insertion of External Fixation Device into Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PHR44Z	Insertion of Internal Fixation Device into Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHR45Z	Insertion of External Fixation Device into Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHS04Z	Insertion of Internal Fixation Device into Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PHS05Z	Insertion of External Fixation Device into Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PHS34Z	Insertion of Internal Fixation Device into Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PHS35Z	Insertion of External Fixation Device into Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PHS44Z	Insertion of Internal Fixation Device into Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHS45Z	Insertion of External Fixation Device into Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHT04Z	Insertion of Internal Fixation Device into Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PHT05Z	Insertion of External Fixation Device into Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PHT34Z	Insertion of Internal Fixation Device into Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PHT35Z	Insertion of External Fixation Device into Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PHT44Z	Insertion of Internal Fixation Device into Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PHT45Z	Insertion of External Fixation Device into Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHV04Z	Insertion of Internal Fixation Device into Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PHV05Z	Insertion of External Fixation Device into Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PHV34Z	Insertion of Internal Fixation Device into Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PHV35Z	Insertion of External Fixation Device into Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PHV44Z	Insertion of Internal Fixation Device into Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHV45Z	Insertion of External Fixation Device into Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PHY0MZ	Insertion of Bone Growth Stimulator into Upper Bone, Open Approach	PX	ICD-10-PCS
0PHY3MZ	Insertion of Bone Growth Stimulator into Upper Bone, Percutaneous Approach	PX	ICD-10-PCS
0PHY4MZ	Insertion of Bone Growth Stimulator into Upper Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PN00ZZ	Release Sternum, Open Approach	PX	ICD-10-PCS
0PN03ZZ	Release Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PN04ZZ	Release Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PN10ZZ	Release 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PN13ZZ	Release 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PN14ZZ	Release 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PN20ZZ	Release 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PN23ZZ	Release 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PN24ZZ	Release 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PN30ZZ	Release Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PN33ZZ	Release Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PN34ZZ	Release Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PN40ZZ	Release Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PN43ZZ	Release Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PN44ZZ	Release Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PN50ZZ	Release Right Scapula, Open Approach	PX	ICD-10-PCS
0PN53ZZ	Release Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PN54ZZ	Release Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PN60ZZ	Release Left Scapula, Open Approach	PX	ICD-10-PCS
0PN63ZZ	Release Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PN64ZZ	Release Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PN70ZZ	Release Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PN73ZZ	Release Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PN74ZZ	Release Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PN80ZZ	Release Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PN83ZZ	Release Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PN84ZZ	Release Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PN90ZZ	Release Right Clavicle, Open Approach	PX	ICD-10-PCS
0PN93ZZ	Release Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PN94ZZ	Release Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNB0ZZ	Release Left Clavicle, Open Approach	PX	ICD-10-PCS
0PNB3ZZ	Release Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PNB4ZZ	Release Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNC0ZZ	Release Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PNC3ZZ	Release Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PNC4ZZ	Release Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PND0ZZ	Release Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PND3ZZ	Release Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PND4ZZ	Release Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNF0ZZ	Release Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PNF3ZZ	Release Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PNF4ZZ	Release Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNG0ZZ	Release Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PNG3ZZ	Release Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PNG4ZZ	Release Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNH0ZZ	Release Right Radius, Open Approach	PX	ICD-10-PCS
0PNH3ZZ	Release Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PNH4ZZ	Release Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNJ0ZZ	Release Left Radius, Open Approach	PX	ICD-10-PCS
0PNJ3ZZ	Release Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PNJ4ZZ	Release Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNK0ZZ	Release Right Ulna, Open Approach	PX	ICD-10-PCS
0PNK3ZZ	Release Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PNK4ZZ	Release Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNL0ZZ	Release Left Ulna, Open Approach	PX	ICD-10-PCS
0PNL3ZZ	Release Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PNL4ZZ	Release Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNM0ZZ	Release Right Carpal, Open Approach	PX	ICD-10-PCS
0PNM3ZZ	Release Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PNM4ZZ	Release Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNN0ZZ	Release Left Carpal, Open Approach	PX	ICD-10-PCS
0PNN3ZZ	Release Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PNN4ZZ	Release Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNP0ZZ	Release Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PNP3ZZ	Release Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PNP4ZZ	Release Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNQ0ZZ	Release Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PNQ3ZZ	Release Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PNQ4ZZ	Release Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNR0ZZ	Release Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PNR3ZZ	Release Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PNR4ZZ	Release Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNS0ZZ	Release Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PNS3ZZ	Release Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PNS4ZZ	Release Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNT0ZZ	Release Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PNT3ZZ	Release Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PNT4ZZ	Release Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PNV0ZZ	Release Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PNV3ZZ	Release Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PNV4ZZ	Release Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP004Z	Removal of Internal Fixation Device from Sternum, Open Approach	PX	ICD-10-PCS
0PP007Z	Removal of Autologous Tissue Substitute from Sternum, Open Approach	PX	ICD-10-PCS
0PP00JZ	Removal of Synthetic Substitute from Sternum, Open Approach	PX	ICD-10-PCS
0PP00KZ	Removal of Nonautologous Tissue Substitute from Sternum, Open Approach	PX	ICD-10-PCS
0PP034Z	Removal of Internal Fixation Device from Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PP037Z	Removal of Autologous Tissue Substitute from Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PP03JZ	Removal of Synthetic Substitute from Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PP03KZ	Removal of Nonautologous Tissue Substitute from Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PP044Z	Removal of Internal Fixation Device from Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP047Z	Removal of Autologous Tissue Substitute from Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP04JZ	Removal of Synthetic Substitute from Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP04KZ	Removal of Nonautologous Tissue Substitute from Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP104Z	Removal of Internal Fixation Device from 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PP107Z	Removal of Autologous Tissue Substitute from 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PP10JZ	Removal of Synthetic Substitute from 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PP10KZ	Removal of Nonautologous Tissue Substitute from 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PP134Z	Removal of Internal Fixation Device from 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PP137Z	Removal of Autologous Tissue Substitute from 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PP13JZ	Removal of Synthetic Substitute from 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PP13KZ	Removal of Nonautologous Tissue Substitute from 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PP144Z	Removal of Internal Fixation Device from 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP147Z	Removal of Autologous Tissue Substitute from 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP14JZ	Removal of Synthetic Substitute from 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP14KZ	Removal of Nonautologous Tissue Substitute from 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP204Z	Removal of Internal Fixation Device from 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PP207Z	Removal of Autologous Tissue Substitute from 3 or More Ribs, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PP20JZ	Removal of Synthetic Substitute from 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PP20KZ	Removal of Nonautologous Tissue Substitute from 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PP234Z	Removal of Internal Fixation Device from 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PP237Z	Removal of Autologous Tissue Substitute from 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PP23JZ	Removal of Synthetic Substitute from 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PP23KZ	Removal of Nonautologous Tissue Substitute from 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PP244Z	Removal of Internal Fixation Device from 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP247Z	Removal of Autologous Tissue Substitute from 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP24JZ	Removal of Synthetic Substitute from 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP24KZ	Removal of Nonautologous Tissue Substitute from 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP304Z	Removal of Internal Fixation Device from Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PP307Z	Removal of Autologous Tissue Substitute from Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PP30JZ	Removal of Synthetic Substitute from Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PP30KZ	Removal of Nonautologous Tissue Substitute from Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PP334Z	Removal of Internal Fixation Device from Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PP337Z	Removal of Autologous Tissue Substitute from Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PP33JZ	Removal of Synthetic Substitute from Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PP33KZ	Removal of Nonautologous Tissue Substitute from Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PP344Z	Removal of Internal Fixation Device from Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP347Z	Removal of Autologous Tissue Substitute from Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP34JZ	Removal of Synthetic Substitute from Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP34KZ	Removal of Nonautologous Tissue Substitute from Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP404Z	Removal of Internal Fixation Device from Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PP407Z	Removal of Autologous Tissue Substitute from Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PP40JZ	Removal of Synthetic Substitute from Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PP40KZ	Removal of Nonautologous Tissue Substitute from Thoracic Vertebra, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PP434Z	Removal of Internal Fixation Device from Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PP437Z	Removal of Autologous Tissue Substitute from Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PP43JZ	Removal of Synthetic Substitute from Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PP43KZ	Removal of Nonautologous Tissue Substitute from Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PP444Z	Removal of Internal Fixation Device from Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP447Z	Removal of Autologous Tissue Substitute from Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP44JZ	Removal of Synthetic Substitute from Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP44KZ	Removal of Nonautologous Tissue Substitute from Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP504Z	Removal of Internal Fixation Device from Right Scapula, Open Approach	PX	ICD-10-PCS
0PP507Z	Removal of Autologous Tissue Substitute from Right Scapula, Open Approach	PX	ICD-10-PCS
0PP50JZ	Removal of Synthetic Substitute from Right Scapula, Open Approach	PX	ICD-10-PCS
0PP50KZ	Removal of Nonautologous Tissue Substitute from Right Scapula, Open Approach	PX	ICD-10-PCS
0PP534Z	Removal of Internal Fixation Device from Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PP537Z	Removal of Autologous Tissue Substitute from Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PP53JZ	Removal of Synthetic Substitute from Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PP53KZ	Removal of Nonautologous Tissue Substitute from Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PP544Z	Removal of Internal Fixation Device from Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP547Z	Removal of Autologous Tissue Substitute from Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP54JZ	Removal of Synthetic Substitute from Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP54KZ	Removal of Nonautologous Tissue Substitute from Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP604Z	Removal of Internal Fixation Device from Left Scapula, Open Approach	PX	ICD-10-PCS
0PP607Z	Removal of Autologous Tissue Substitute from Left Scapula, Open Approach	PX	ICD-10-PCS
0PP60JZ	Removal of Synthetic Substitute from Left Scapula, Open Approach	PX	ICD-10-PCS
0PP60KZ	Removal of Nonautologous Tissue Substitute from Left Scapula, Open Approach	PX	ICD-10-PCS
0PP634Z	Removal of Internal Fixation Device from Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PP637Z	Removal of Autologous Tissue Substitute from Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PP63JZ	Removal of Synthetic Substitute from Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PP63KZ	Removal of Nonautologous Tissue Substitute from Left Scapula, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PP644Z	Removal of Internal Fixation Device from Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP647Z	Removal of Autologous Tissue Substitute from Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP64JZ	Removal of Synthetic Substitute from Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP64KZ	Removal of Nonautologous Tissue Substitute from Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP704Z	Removal of Internal Fixation Device from Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PP707Z	Removal of Autologous Tissue Substitute from Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PP70JZ	Removal of Synthetic Substitute from Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PP70KZ	Removal of Nonautologous Tissue Substitute from Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PP734Z	Removal of Internal Fixation Device from Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PP737Z	Removal of Autologous Tissue Substitute from Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PP73JZ	Removal of Synthetic Substitute from Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PP73KZ	Removal of Nonautologous Tissue Substitute from Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PP744Z	Removal of Internal Fixation Device from Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP747Z	Removal of Autologous Tissue Substitute from Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP74JZ	Removal of Synthetic Substitute from Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP74KZ	Removal of Nonautologous Tissue Substitute from Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP804Z	Removal of Internal Fixation Device from Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PP807Z	Removal of Autologous Tissue Substitute from Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PP80JZ	Removal of Synthetic Substitute from Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PP80KZ	Removal of Nonautologous Tissue Substitute from Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PP834Z	Removal of Internal Fixation Device from Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PP837Z	Removal of Autologous Tissue Substitute from Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PP83JZ	Removal of Synthetic Substitute from Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PP83KZ	Removal of Nonautologous Tissue Substitute from Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PP844Z	Removal of Internal Fixation Device from Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP847Z	Removal of Autologous Tissue Substitute from Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP84JZ	Removal of Synthetic Substitute from Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP84KZ	Removal of Nonautologous Tissue Substitute from Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP904Z	Removal of Internal Fixation Device from Right Clavicle, Open Approach	PX	ICD-10-PCS
0PP907Z	Removal of Autologous Tissue Substitute from Right Clavicle, Open Approach	PX	ICD-10-PCS
0PP90JZ	Removal of Synthetic Substitute from Right Clavicle, Open Approach	PX	ICD-10-PCS
0PP90KZ	Removal of Nonautologous Tissue Substitute from Right Clavicle, Open Approach	PX	ICD-10-PCS
0PP934Z	Removal of Internal Fixation Device from Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PP937Z	Removal of Autologous Tissue Substitute from Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PP93JZ	Removal of Synthetic Substitute from Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PP93KZ	Removal of Nonautologous Tissue Substitute from Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PP944Z	Removal of Internal Fixation Device from Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP947Z	Removal of Autologous Tissue Substitute from Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP94JZ	Removal of Synthetic Substitute from Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PP94KZ	Removal of Nonautologous Tissue Substitute from Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPB04Z	Removal of Internal Fixation Device from Left Clavicle, Open Approach	PX	ICD-10-PCS
0PPB07Z	Removal of Autologous Tissue Substitute from Left Clavicle, Open Approach	PX	ICD-10-PCS
0PPB0JZ	Removal of Synthetic Substitute from Left Clavicle, Open Approach	PX	ICD-10-PCS
0PPB0KZ	Removal of Nonautologous Tissue Substitute from Left Clavicle, Open Approach	PX	ICD-10-PCS
0PPB34Z	Removal of Internal Fixation Device from Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PPB37Z	Removal of Autologous Tissue Substitute from Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PPB3JZ	Removal of Synthetic Substitute from Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PPB3KZ	Removal of Nonautologous Tissue Substitute from Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PPB44Z	Removal of Internal Fixation Device from Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPB47Z	Removal of Autologous Tissue Substitute from Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPB4JZ	Removal of Synthetic Substitute from Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPB4KZ	Removal of Nonautologous Tissue Substitute from Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PPC04Z	Removal of Internal Fixation Device from Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PPC05Z	Removal of External Fixation Device from Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PPC07Z	Removal of Autologous Tissue Substitute from Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PPC0JZ	Removal of Synthetic Substitute from Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PPC0KZ	Removal of Nonautologous Tissue Substitute from Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PPC34Z	Removal of Internal Fixation Device from Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PPC35Z	Removal of External Fixation Device from Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PPC37Z	Removal of Autologous Tissue Substitute from Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PPC3JZ	Removal of Synthetic Substitute from Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PPC3KZ	Removal of Nonautologous Tissue Substitute from Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PPC44Z	Removal of Internal Fixation Device from Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPC45Z	Removal of External Fixation Device from Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPC47Z	Removal of Autologous Tissue Substitute from Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPC4JZ	Removal of Synthetic Substitute from Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPC4KZ	Removal of Nonautologous Tissue Substitute from Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPD04Z	Removal of Internal Fixation Device from Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PPD05Z	Removal of External Fixation Device from Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PPD07Z	Removal of Autologous Tissue Substitute from Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PPD0JZ	Removal of Synthetic Substitute from Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PPD0KZ	Removal of Nonautologous Tissue Substitute from Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PPD34Z	Removal of Internal Fixation Device from Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PPD35Z	Removal of External Fixation Device from Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PPD37Z	Removal of Autologous Tissue Substitute from Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PPD3JZ	Removal of Synthetic Substitute from Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PPD3KZ	Removal of Nonautologous Tissue Substitute from Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PPD44Z	Removal of Internal Fixation Device from Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPD45Z	Removal of External Fixation Device from Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPD47Z	Removal of Autologous Tissue Substitute from Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPD4JZ	Removal of Synthetic Substitute from Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPD4KZ	Removal of Nonautologous Tissue Substitute from Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPF04Z	Removal of Internal Fixation Device from Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PPF05Z	Removal of External Fixation Device from Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PPF07Z	Removal of Autologous Tissue Substitute from Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PPF0JZ	Removal of Synthetic Substitute from Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PPF0KZ	Removal of Nonautologous Tissue Substitute from Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PPF34Z	Removal of Internal Fixation Device from Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PPF35Z	Removal of External Fixation Device from Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PPF37Z	Removal of Autologous Tissue Substitute from Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PPF3JZ	Removal of Synthetic Substitute from Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PPF3KZ	Removal of Nonautologous Tissue Substitute from Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PPF44Z	Removal of Internal Fixation Device from Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPF45Z	Removal of External Fixation Device from Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPF47Z	Removal of Autologous Tissue Substitute from Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPF4JZ	Removal of Synthetic Substitute from Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPF4KZ	Removal of Nonautologous Tissue Substitute from Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPG04Z	Removal of Internal Fixation Device from Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PPG05Z	Removal of External Fixation Device from Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PPG07Z	Removal of Autologous Tissue Substitute from Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PPG0JZ	Removal of Synthetic Substitute from Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PPG0KZ	Removal of Nonautologous Tissue Substitute from Left Humeral Shaft, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PPG34Z	Removal of Internal Fixation Device from Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PPG35Z	Removal of External Fixation Device from Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PPG37Z	Removal of Autologous Tissue Substitute from Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PPG3JZ	Removal of Synthetic Substitute from Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PPG3KZ	Removal of Nonautologous Tissue Substitute from Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PPG44Z	Removal of Internal Fixation Device from Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPG45Z	Removal of External Fixation Device from Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPG47Z	Removal of Autologous Tissue Substitute from Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPG4JZ	Removal of Synthetic Substitute from Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPG4KZ	Removal of Nonautologous Tissue Substitute from Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPH04Z	Removal of Internal Fixation Device from Right Radius, Open Approach	PX	ICD-10-PCS
0PPH05Z	Removal of External Fixation Device from Right Radius, Open Approach	PX	ICD-10-PCS
0PPH07Z	Removal of Autologous Tissue Substitute from Right Radius, Open Approach	PX	ICD-10-PCS
0PPH0JZ	Removal of Synthetic Substitute from Right Radius, Open Approach	PX	ICD-10-PCS
0PPH0KZ	Removal of Nonautologous Tissue Substitute from Right Radius, Open Approach	PX	ICD-10-PCS
0PPH34Z	Removal of Internal Fixation Device from Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PPH35Z	Removal of External Fixation Device from Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PPH37Z	Removal of Autologous Tissue Substitute from Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PPH3JZ	Removal of Synthetic Substitute from Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PPH3KZ	Removal of Nonautologous Tissue Substitute from Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PPH44Z	Removal of Internal Fixation Device from Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPH45Z	Removal of External Fixation Device from Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPH47Z	Removal of Autologous Tissue Substitute from Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPH4JZ	Removal of Synthetic Substitute from Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPH4KZ	Removal of Nonautologous Tissue Substitute from Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPJ04Z	Removal of Internal Fixation Device from Left Radius, Open Approach	PX	ICD-10-PCS
0PPJ05Z	Removal of External Fixation Device from Left Radius, Open Approach	PX	ICD-10-PCS
0PPJ07Z	Removal of Autologous Tissue Substitute from Left Radius, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PPJ0JZ	Removal of Synthetic Substitute from Left Radius, Open Approach	PX	ICD-10-PCS
0PPJ0KZ	Removal of Nonautologous Tissue Substitute from Left Radius, Open Approach	PX	ICD-10-PCS
0PPJ34Z	Removal of Internal Fixation Device from Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PPJ35Z	Removal of External Fixation Device from Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PPJ37Z	Removal of Autologous Tissue Substitute from Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PPJ3JZ	Removal of Synthetic Substitute from Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PPJ3KZ	Removal of Nonautologous Tissue Substitute from Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PPJ44Z	Removal of Internal Fixation Device from Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPJ45Z	Removal of External Fixation Device from Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPJ47Z	Removal of Autologous Tissue Substitute from Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPJ4JZ	Removal of Synthetic Substitute from Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPJ4KZ	Removal of Nonautologous Tissue Substitute from Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPK04Z	Removal of Internal Fixation Device from Right Ulna, Open Approach	PX	ICD-10-PCS
0PPK05Z	Removal of External Fixation Device from Right Ulna, Open Approach	PX	ICD-10-PCS
0PPK07Z	Removal of Autologous Tissue Substitute from Right Ulna, Open Approach	PX	ICD-10-PCS
0PPK0JZ	Removal of Synthetic Substitute from Right Ulna, Open Approach	PX	ICD-10-PCS
0PPK0KZ	Removal of Nonautologous Tissue Substitute from Right Ulna, Open Approach	PX	ICD-10-PCS
0PPK34Z	Removal of Internal Fixation Device from Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PPK35Z	Removal of External Fixation Device from Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PPK37Z	Removal of Autologous Tissue Substitute from Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PPK3JZ	Removal of Synthetic Substitute from Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PPK3KZ	Removal of Nonautologous Tissue Substitute from Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PPK44Z	Removal of Internal Fixation Device from Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPK45Z	Removal of External Fixation Device from Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPK47Z	Removal of Autologous Tissue Substitute from Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPK4JZ	Removal of Synthetic Substitute from Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPK4KZ	Removal of Nonautologous Tissue Substitute from Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPL04Z	Removal of Internal Fixation Device from Left Ulna, Open Approach	PX	ICD-10-PCS
0PPL05Z	Removal of External Fixation Device from Left Ulna, Open Approach	PX	ICD-10-PCS
0PPL07Z	Removal of Autologous Tissue Substitute from Left Ulna, Open Approach	PX	ICD-10-PCS
0PPL0JZ	Removal of Synthetic Substitute from Left Ulna, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PPL0KZ	Removal of Nonautologous Tissue Substitute from Left Ulna, Open Approach	PX	ICD-10-PCS
0PPL34Z	Removal of Internal Fixation Device from Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PPL35Z	Removal of External Fixation Device from Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PPL37Z	Removal of Autologous Tissue Substitute from Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PPL3JZ	Removal of Synthetic Substitute from Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PPL3KZ	Removal of Nonautologous Tissue Substitute from Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PPL44Z	Removal of Internal Fixation Device from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPL45Z	Removal of External Fixation Device from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPL47Z	Removal of Autologous Tissue Substitute from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPL4JZ	Removal of Synthetic Substitute from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPL4KZ	Removal of Nonautologous Tissue Substitute from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPM04Z	Removal of Internal Fixation Device from Right Carpal, Open Approach	PX	ICD-10-PCS
0PPM05Z	Removal of External Fixation Device from Right Carpal, Open Approach	PX	ICD-10-PCS
0PPM07Z	Removal of Autologous Tissue Substitute from Right Carpal, Open Approach	PX	ICD-10-PCS
0PPM0JZ	Removal of Synthetic Substitute from Right Carpal, Open Approach	PX	ICD-10-PCS
0PPM0KZ	Removal of Nonautologous Tissue Substitute from Right Carpal, Open Approach	PX	ICD-10-PCS
0PPM34Z	Removal of Internal Fixation Device from Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PPM35Z	Removal of External Fixation Device from Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PPM37Z	Removal of Autologous Tissue Substitute from Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PPM3JZ	Removal of Synthetic Substitute from Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PPM3KZ	Removal of Nonautologous Tissue Substitute from Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PPM44Z	Removal of Internal Fixation Device from Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPM45Z	Removal of External Fixation Device from Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPM47Z	Removal of Autologous Tissue Substitute from Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPM4JZ	Removal of Synthetic Substitute from Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPM4KZ	Removal of Nonautologous Tissue Substitute from Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPN04Z	Removal of Internal Fixation Device from Left Carpal, Open Approach	PX	ICD-10-PCS
0PPN05Z	Removal of External Fixation Device from Left Carpal, Open Approach	PX	ICD-10-PCS
0PPN07Z	Removal of Autologous Tissue Substitute from Left Carpal, Open Approach	PX	ICD-10-PCS
0PPN0JZ	Removal of Synthetic Substitute from Left Carpal, Open Approach	PX	ICD-10-PCS
0PPN0KZ	Removal of Nonautologous Tissue Substitute from Left Carpal, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PPN34Z	Removal of Internal Fixation Device from Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PPN35Z	Removal of External Fixation Device from Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PPN37Z	Removal of Autologous Tissue Substitute from Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PPN3JZ	Removal of Synthetic Substitute from Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PPN3KZ	Removal of Nonautologous Tissue Substitute from Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PPN44Z	Removal of Internal Fixation Device from Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPN45Z	Removal of External Fixation Device from Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPN47Z	Removal of Autologous Tissue Substitute from Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPN4JZ	Removal of Synthetic Substitute from Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPN4KZ	Removal of Nonautologous Tissue Substitute from Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPP04Z	Removal of Internal Fixation Device from Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PPP05Z	Removal of External Fixation Device from Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PPP07Z	Removal of Autologous Tissue Substitute from Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PPP0JZ	Removal of Synthetic Substitute from Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PPP0KZ	Removal of Nonautologous Tissue Substitute from Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PPP34Z	Removal of Internal Fixation Device from Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PPP35Z	Removal of External Fixation Device from Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PPP37Z	Removal of Autologous Tissue Substitute from Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PPP3JZ	Removal of Synthetic Substitute from Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PPP3KZ	Removal of Nonautologous Tissue Substitute from Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PPP44Z	Removal of Internal Fixation Device from Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPP45Z	Removal of External Fixation Device from Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPP47Z	Removal of Autologous Tissue Substitute from Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPP4JZ	Removal of Synthetic Substitute from Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPP4KZ	Removal of Nonautologous Tissue Substitute from Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPQ04Z	Removal of Internal Fixation Device from Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PPQ05Z	Removal of External Fixation Device from Left Metacarpal, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PPQ07Z	Removal of Autologous Tissue Substitute from Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PPQ0JZ	Removal of Synthetic Substitute from Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PPQ0KZ	Removal of Nonautologous Tissue Substitute from Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PPQ34Z	Removal of Internal Fixation Device from Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PPQ35Z	Removal of External Fixation Device from Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PPQ37Z	Removal of Autologous Tissue Substitute from Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PPQ3JZ	Removal of Synthetic Substitute from Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PPQ3KZ	Removal of Nonautologous Tissue Substitute from Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PPQ44Z	Removal of Internal Fixation Device from Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPQ45Z	Removal of External Fixation Device from Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPQ47Z	Removal of Autologous Tissue Substitute from Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPQ4JZ	Removal of Synthetic Substitute from Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPQ4KZ	Removal of Nonautologous Tissue Substitute from Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPR04Z	Removal of Internal Fixation Device from Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PPR05Z	Removal of External Fixation Device from Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PPR07Z	Removal of Autologous Tissue Substitute from Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PPR0JZ	Removal of Synthetic Substitute from Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PPR0KZ	Removal of Nonautologous Tissue Substitute from Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PPR34Z	Removal of Internal Fixation Device from Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPR35Z	Removal of External Fixation Device from Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPR37Z	Removal of Autologous Tissue Substitute from Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPR3JZ	Removal of Synthetic Substitute from Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPR3KZ	Removal of Nonautologous Tissue Substitute from Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPR44Z	Removal of Internal Fixation Device from Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPR45Z	Removal of External Fixation Device from Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PPR47Z	Removal of Autologous Tissue Substitute from Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPR4JZ	Removal of Synthetic Substitute from Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPR4KZ	Removal of Nonautologous Tissue Substitute from Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPS04Z	Removal of Internal Fixation Device from Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PPS05Z	Removal of External Fixation Device from Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PPS07Z	Removal of Autologous Tissue Substitute from Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PPS0JZ	Removal of Synthetic Substitute from Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PPS0KZ	Removal of Nonautologous Tissue Substitute from Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PPS34Z	Removal of Internal Fixation Device from Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPS35Z	Removal of External Fixation Device from Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPS37Z	Removal of Autologous Tissue Substitute from Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPS3JZ	Removal of Synthetic Substitute from Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPS3KZ	Removal of Nonautologous Tissue Substitute from Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPS44Z	Removal of Internal Fixation Device from Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPS45Z	Removal of External Fixation Device from Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPS47Z	Removal of Autologous Tissue Substitute from Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPS4JZ	Removal of Synthetic Substitute from Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPS4KZ	Removal of Nonautologous Tissue Substitute from Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPT04Z	Removal of Internal Fixation Device from Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PPT05Z	Removal of External Fixation Device from Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PPT07Z	Removal of Autologous Tissue Substitute from Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PPT0JZ	Removal of Synthetic Substitute from Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PPT0KZ	Removal of Nonautologous Tissue Substitute from Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PPT34Z	Removal of Internal Fixation Device from Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPT35Z	Removal of External Fixation Device from Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PPT37Z	Removal of Autologous Tissue Substitute from Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPT3JZ	Removal of Synthetic Substitute from Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPT3KZ	Removal of Nonautologous Tissue Substitute from Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPT44Z	Removal of Internal Fixation Device from Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPT45Z	Removal of External Fixation Device from Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPT47Z	Removal of Autologous Tissue Substitute from Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPT4JZ	Removal of Synthetic Substitute from Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPT4KZ	Removal of Nonautologous Tissue Substitute from Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPV04Z	Removal of Internal Fixation Device from Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PPV05Z	Removal of External Fixation Device from Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PPV07Z	Removal of Autologous Tissue Substitute from Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PPV0JZ	Removal of Synthetic Substitute from Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PPV0KZ	Removal of Nonautologous Tissue Substitute from Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PPV34Z	Removal of Internal Fixation Device from Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPV35Z	Removal of External Fixation Device from Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPV37Z	Removal of Autologous Tissue Substitute from Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPV3JZ	Removal of Synthetic Substitute from Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPV3KZ	Removal of Nonautologous Tissue Substitute from Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PPV44Z	Removal of Internal Fixation Device from Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPV45Z	Removal of External Fixation Device from Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPV47Z	Removal of Autologous Tissue Substitute from Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPV4JZ	Removal of Synthetic Substitute from Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPV4KZ	Removal of Nonautologous Tissue Substitute from Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPY00Z	Removal of Drainage Device from Upper Bone, Open Approach	PX	ICD-10-PCS
0PPY0MZ	Removal of Bone Growth Stimulator from Upper Bone, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PPY3MZ	Removal of Bone Growth Stimulator from Upper Bone, Percutaneous Approach	PX	ICD-10-PCS
0PPY40Z	Removal of Drainage Device from Upper Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PPY4MZ	Removal of Bone Growth Stimulator from Upper Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQ00ZZ	Repair Sternum, Open Approach	PX	ICD-10-PCS
0PQ03ZZ	Repair Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PQ04ZZ	Repair Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQ10ZZ	Repair 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PQ13ZZ	Repair 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PQ14ZZ	Repair 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQ20ZZ	Repair 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PQ23ZZ	Repair 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PQ24ZZ	Repair 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQ30ZZ	Repair Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PQ33ZZ	Repair Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PQ34ZZ	Repair Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQ40ZZ	Repair Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PQ43ZZ	Repair Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PQ44ZZ	Repair Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQ50ZZ	Repair Right Scapula, Open Approach	PX	ICD-10-PCS
0PQ53ZZ	Repair Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PQ54ZZ	Repair Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQ60ZZ	Repair Left Scapula, Open Approach	PX	ICD-10-PCS
0PQ63ZZ	Repair Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PQ64ZZ	Repair Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQ70ZZ	Repair Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PQ73ZZ	Repair Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PQ74ZZ	Repair Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQ80ZZ	Repair Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PQ83ZZ	Repair Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PQ84ZZ	Repair Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQ90ZZ	Repair Right Clavicle, Open Approach	PX	ICD-10-PCS
0PQ93ZZ	Repair Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PQ94ZZ	Repair Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQB0ZZ	Repair Left Clavicle, Open Approach	PX	ICD-10-PCS
0PQB3ZZ	Repair Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PQB4ZZ	Repair Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQC0ZZ	Repair Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PQC3ZZ	Repair Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PQC4ZZ	Repair Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQD0ZZ	Repair Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PQD3ZZ	Repair Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PQD4ZZ	Repair Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQF0ZZ	Repair Right Humeral Shaft, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PQF3ZZ	Repair Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PQF4ZZ	Repair Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQG0ZZ	Repair Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PQG3ZZ	Repair Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PQG4ZZ	Repair Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQH0ZZ	Repair Right Radius, Open Approach	PX	ICD-10-PCS
0PQH3ZZ	Repair Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PQH4ZZ	Repair Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQJ0ZZ	Repair Left Radius, Open Approach	PX	ICD-10-PCS
0PQJ3ZZ	Repair Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PQJ4ZZ	Repair Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQK0ZZ	Repair Right Ulna, Open Approach	PX	ICD-10-PCS
0PQK3ZZ	Repair Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PQK4ZZ	Repair Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQL0ZZ	Repair Left Ulna, Open Approach	PX	ICD-10-PCS
0PQL3ZZ	Repair Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PQL4ZZ	Repair Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQM0ZZ	Repair Right Carpal, Open Approach	PX	ICD-10-PCS
0PQM3ZZ	Repair Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PQM4ZZ	Repair Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQN0ZZ	Repair Left Carpal, Open Approach	PX	ICD-10-PCS
0PQN3ZZ	Repair Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PQN4ZZ	Repair Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQP0ZZ	Repair Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PQP3ZZ	Repair Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PQP4ZZ	Repair Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQQ0ZZ	Repair Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PQQ3ZZ	Repair Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PQQ4ZZ	Repair Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQR0ZZ	Repair Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PQR3ZZ	Repair Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PQR4ZZ	Repair Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQS0ZZ	Repair Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PQS3ZZ	Repair Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PQS4ZZ	Repair Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQT0ZZ	Repair Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PQT3ZZ	Repair Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PQT4ZZ	Repair Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PQV0ZZ	Repair Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PQV3ZZ	Repair Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PQV4ZZ	Repair Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR007Z	Replacement of Sternum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR00JZ	Replacement of Sternum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PR00KZ	Replacement of Sternum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PR037Z	Replacement of Sternum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR03JZ	Replacement of Sternum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR03KZ	Replacement of Sternum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR047Z	Replacement of Sternum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR04JZ	Replacement of Sternum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR04KZ	Replacement of Sternum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR107Z	Replacement of 1 to 2 Ribs with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR10JZ	Replacement of 1 to 2 Ribs with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PR10KZ	Replacement of 1 to 2 Ribs with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR137Z	Replacement of 1 to 2 Ribs with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR13JZ	Replacement of 1 to 2 Ribs with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR13KZ	Replacement of 1 to 2 Ribs with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR147Z	Replacement of 1 to 2 Ribs with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR14JZ	Replacement of 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR14KZ	Replacement of 1 to 2 Ribs with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR207Z	Replacement of 3 or More Ribs with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR20JZ	Replacement of 3 or More Ribs with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PR20KZ	Replacement of 3 or More Ribs with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR237Z	Replacement of 3 or More Ribs with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR23JZ	Replacement of 3 or More Ribs with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR23KZ	Replacement of 3 or More Ribs with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR247Z	Replacement of 3 or More Ribs with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR24JZ	Replacement of 3 or More Ribs with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR24KZ	Replacement of 3 or More Ribs with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR307Z	Replacement of Cervical Vertebra with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PR30JZ	Replacement of Cervical Vertebra with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PR30KZ	Replacement of Cervical Vertebra with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR337Z	Replacement of Cervical Vertebra with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR33JZ	Replacement of Cervical Vertebra with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR33KZ	Replacement of Cervical Vertebra with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR347Z	Replacement of Cervical Vertebra with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR34JZ	Replacement of Cervical Vertebra with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR34KZ	Replacement of Cervical Vertebra with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR407Z	Replacement of Thoracic Vertebra with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR40JZ	Replacement of Thoracic Vertebra with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PR40KZ	Replacement of Thoracic Vertebra with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR437Z	Replacement of Thoracic Vertebra with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR43JZ	Replacement of Thoracic Vertebra with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR43KZ	Replacement of Thoracic Vertebra with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR447Z	Replacement of Thoracic Vertebra with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR44JZ	Replacement of Thoracic Vertebra with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR44KZ	Replacement of Thoracic Vertebra with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR507Z	Replacement of Right Scapula with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR50JZ	Replacement of Right Scapula with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PR50KZ	Replacement of Right Scapula with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR537Z	Replacement of Right Scapula with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR53JZ	Replacement of Right Scapula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR53KZ	Replacement of Right Scapula with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR547Z	Replacement of Right Scapula with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PR54JZ	Replacement of Right Scapula with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR54KZ	Replacement of Right Scapula with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR607Z	Replacement of Left Scapula with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR60JZ	Replacement of Left Scapula with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PR60KZ	Replacement of Left Scapula with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR637Z	Replacement of Left Scapula with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR63JZ	Replacement of Left Scapula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR63KZ	Replacement of Left Scapula with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR647Z	Replacement of Left Scapula with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR64JZ	Replacement of Left Scapula with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR64KZ	Replacement of Left Scapula with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR707Z	Replacement of Right Glenoid Cavity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR70JZ	Replacement of Right Glenoid Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PR70KZ	Replacement of Right Glenoid Cavity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR737Z	Replacement of Right Glenoid Cavity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR73JZ	Replacement of Right Glenoid Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR73KZ	Replacement of Right Glenoid Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR747Z	Replacement of Right Glenoid Cavity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR74JZ	Replacement of Right Glenoid Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR74KZ	Replacement of Right Glenoid Cavity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR807Z	Replacement of Left Glenoid Cavity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR80JZ	Replacement of Left Glenoid Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PR80KZ	Replacement of Left Glenoid Cavity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR837Z	Replacement of Left Glenoid Cavity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR83JZ	Replacement of Left Glenoid Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PR83KZ	Replacement of Left Glenoid Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR847Z	Replacement of Left Glenoid Cavity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR84JZ	Replacement of Left Glenoid Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR84KZ	Replacement of Left Glenoid Cavity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR907Z	Replacement of Right Clavicle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR90JZ	Replacement of Right Clavicle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PR90KZ	Replacement of Right Clavicle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PR937Z	Replacement of Right Clavicle with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR93JZ	Replacement of Right Clavicle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR93KZ	Replacement of Right Clavicle with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PR947Z	Replacement of Right Clavicle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR94JZ	Replacement of Right Clavicle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PR94KZ	Replacement of Right Clavicle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRB07Z	Replacement of Left Clavicle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRB0JZ	Replacement of Left Clavicle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRB0KZ	Replacement of Left Clavicle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRB37Z	Replacement of Left Clavicle with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRB3JZ	Replacement of Left Clavicle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRB3KZ	Replacement of Left Clavicle with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRB47Z	Replacement of Left Clavicle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRB4JZ	Replacement of Left Clavicle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRB4KZ	Replacement of Left Clavicle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRC07Z	Replacement of Right Humeral Head with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRC0JZ	Replacement of Right Humeral Head with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRC0KZ	Replacement of Right Humeral Head with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PRC37Z	Replacement of Right Humeral Head with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRC3JZ	Replacement of Right Humeral Head with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRC3KZ	Replacement of Right Humeral Head with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRC47Z	Replacement of Right Humeral Head with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRC4JZ	Replacement of Right Humeral Head with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRC4KZ	Replacement of Right Humeral Head with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRD07Z	Replacement of Left Humeral Head with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRD0JZ	Replacement of Left Humeral Head with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRD0KZ	Replacement of Left Humeral Head with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRD37Z	Replacement of Left Humeral Head with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRD3JZ	Replacement of Left Humeral Head with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRD3KZ	Replacement of Left Humeral Head with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRD47Z	Replacement of Left Humeral Head with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRD4JZ	Replacement of Left Humeral Head with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRD4KZ	Replacement of Left Humeral Head with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRF07Z	Replacement of Right Humeral Shaft with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRF0JZ	Replacement of Right Humeral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRF0KZ	Replacement of Right Humeral Shaft with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRF37Z	Replacement of Right Humeral Shaft with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRF3JZ	Replacement of Right Humeral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRF3KZ	Replacement of Right Humeral Shaft with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRF47Z	Replacement of Right Humeral Shaft with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRF4JZ	Replacement of Right Humeral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PRF4KZ	Replacement of Right Humeral Shaft with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRG07Z	Replacement of Left Humeral Shaft with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRG0JZ	Replacement of Left Humeral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRG0KZ	Replacement of Left Humeral Shaft with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRG37Z	Replacement of Left Humeral Shaft with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRG3JZ	Replacement of Left Humeral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRG3KZ	Replacement of Left Humeral Shaft with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRG47Z	Replacement of Left Humeral Shaft with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRG4JZ	Replacement of Left Humeral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRG4KZ	Replacement of Left Humeral Shaft with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRH07Z	Replacement of Right Radius with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRH0JZ	Replacement of Right Radius with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRH0KZ	Replacement of Right Radius with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRH37Z	Replacement of Right Radius with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRH3JZ	Replacement of Right Radius with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRH3KZ	Replacement of Right Radius with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRH47Z	Replacement of Right Radius with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRH4JZ	Replacement of Right Radius with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRH4KZ	Replacement of Right Radius with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRJ07Z	Replacement of Left Radius with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRJ0JZ	Replacement of Left Radius with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRJ0KZ	Replacement of Left Radius with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRJ37Z	Replacement of Left Radius with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRJ3JZ	Replacement of Left Radius with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRJ3KZ	Replacement of Left Radius with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PRJ47Z	Replacement of Left Radius with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRJ4JZ	Replacement of Left Radius with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRJ4KZ	Replacement of Left Radius with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRK07Z	Replacement of Right Ulna with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRK0JZ	Replacement of Right Ulna with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRK0KZ	Replacement of Right Ulna with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRK37Z	Replacement of Right Ulna with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRK3JZ	Replacement of Right Ulna with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRK3KZ	Replacement of Right Ulna with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRK47Z	Replacement of Right Ulna with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRK4JZ	Replacement of Right Ulna with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRK4KZ	Replacement of Right Ulna with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRL07Z	Replacement of Left Ulna with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRL0JZ	Replacement of Left Ulna with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRL0KZ	Replacement of Left Ulna with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRL37Z	Replacement of Left Ulna with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRL3JZ	Replacement of Left Ulna with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRL3KZ	Replacement of Left Ulna with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRL47Z	Replacement of Left Ulna with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRL4JZ	Replacement of Left Ulna with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRL4KZ	Replacement of Left Ulna with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRM07Z	Replacement of Right Carpal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRM0JZ	Replacement of Right Carpal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRM0KZ	Replacement of Right Carpal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRM37Z	Replacement of Right Carpal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRM3JZ	Replacement of Right Carpal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRM3KZ	Replacement of Right Carpal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PRM47Z	Replacement of Right Carpal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRM4JZ	Replacement of Right Carpal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRM4KZ	Replacement of Right Carpal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRN07Z	Replacement of Left Carpal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRN0JZ	Replacement of Left Carpal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRN0KZ	Replacement of Left Carpal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRN37Z	Replacement of Left Carpal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRN3JZ	Replacement of Left Carpal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRN3KZ	Replacement of Left Carpal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRN47Z	Replacement of Left Carpal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRN4JZ	Replacement of Left Carpal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRN4KZ	Replacement of Left Carpal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRP07Z	Replacement of Right Metacarpal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRP0JZ	Replacement of Right Metacarpal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRP0KZ	Replacement of Right Metacarpal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRP37Z	Replacement of Right Metacarpal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRP3JZ	Replacement of Right Metacarpal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRP3KZ	Replacement of Right Metacarpal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRP47Z	Replacement of Right Metacarpal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRP4JZ	Replacement of Right Metacarpal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRP4KZ	Replacement of Right Metacarpal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRQ07Z	Replacement of Left Metacarpal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRQ0JZ	Replacement of Left Metacarpal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRQ0KZ	Replacement of Left Metacarpal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRQ37Z	Replacement of Left Metacarpal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PRQ3JZ	Replacement of Left Metacarpal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRQ3KZ	Replacement of Left Metacarpal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRQ47Z	Replacement of Left Metacarpal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRQ4JZ	Replacement of Left Metacarpal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRQ4KZ	Replacement of Left Metacarpal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRR07Z	Replacement of Right Thumb Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRR0JZ	Replacement of Right Thumb Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRR0KZ	Replacement of Right Thumb Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRR37Z	Replacement of Right Thumb Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRR3JZ	Replacement of Right Thumb Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRR3KZ	Replacement of Right Thumb Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRR47Z	Replacement of Right Thumb Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRR4JZ	Replacement of Right Thumb Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRR4KZ	Replacement of Right Thumb Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRS07Z	Replacement of Left Thumb Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRS0JZ	Replacement of Left Thumb Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRS0KZ	Replacement of Left Thumb Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRS37Z	Replacement of Left Thumb Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRS3JZ	Replacement of Left Thumb Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRS3KZ	Replacement of Left Thumb Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRS47Z	Replacement of Left Thumb Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRS4JZ	Replacement of Left Thumb Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRS4KZ	Replacement of Left Thumb Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PRT07Z	Replacement of Right Finger Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRT0JZ	Replacement of Right Finger Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRT0KZ	Replacement of Right Finger Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRT37Z	Replacement of Right Finger Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRT3JZ	Replacement of Right Finger Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRT3KZ	Replacement of Right Finger Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRT47Z	Replacement of Right Finger Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRT4JZ	Replacement of Right Finger Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRT4KZ	Replacement of Right Finger Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRV07Z	Replacement of Left Finger Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRV0JZ	Replacement of Left Finger Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PRV0KZ	Replacement of Left Finger Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PRV37Z	Replacement of Left Finger Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRV3JZ	Replacement of Left Finger Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRV3KZ	Replacement of Left Finger Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PRV47Z	Replacement of Left Finger Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRV4JZ	Replacement of Left Finger Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PRV4KZ	Replacement of Left Finger Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS000Z	Reposition Sternum with Rigid Plate Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS004Z	Reposition Sternum with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS00ZZ	Reposition Sternum, Open Approach	PX	ICD-10-PCS
0PS030Z	Reposition Sternum with Rigid Plate Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS034Z	Reposition Sternum with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS040Z	Reposition Sternum with Rigid Plate Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS044Z	Reposition Sternum with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS04ZZ	Reposition Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PS104Z	Reposition 1 to 2 Ribs with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS10ZZ	Reposition 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PS134Z	Reposition 1 to 2 Ribs with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS144Z	Reposition 1 to 2 Ribs with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS14ZZ	Reposition 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS204Z	Reposition 3 or More Ribs with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS20ZZ	Reposition 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PS234Z	Reposition 3 or More Ribs with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS244Z	Reposition 3 or More Ribs with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS24ZZ	Reposition 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS304Z	Reposition Cervical Vertebra with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS30ZZ	Reposition Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PS334Z	Reposition Cervical Vertebra with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS33ZZ	Reposition Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PS344Z	Reposition Cervical Vertebra with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS34ZZ	Reposition Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS403Z	Reposition Thoracic Vertebra with Spinal Stabilization Device, Vertebral Body Tether, Open Approach	PX	ICD-10-PCS
0PS404Z	Reposition Thoracic Vertebra with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS40ZZ	Reposition Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PS434Z	Reposition Thoracic Vertebra with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS43ZZ	Reposition Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PS443Z	Reposition Thoracic Vertebra with Spinal Stabilization Device, Vertebral Body Tether, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS444Z	Reposition Thoracic Vertebra with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS44ZZ	Reposition Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS504Z	Reposition Right Scapula with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS50ZZ	Reposition Right Scapula, Open Approach	PX	ICD-10-PCS
0PS534Z	Reposition Right Scapula with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS544Z	Reposition Right Scapula with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS54ZZ	Reposition Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS604Z	Reposition Left Scapula with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS60ZZ	Reposition Left Scapula, Open Approach	PX	ICD-10-PCS
0PS634Z	Reposition Left Scapula with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS644Z	Reposition Left Scapula with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS64ZZ	Reposition Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PS704Z	Reposition Right Glenoid Cavity with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS70ZZ	Reposition Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PS734Z	Reposition Right Glenoid Cavity with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS744Z	Reposition Right Glenoid Cavity with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS74ZZ	Reposition Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS804Z	Reposition Left Glenoid Cavity with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS80ZZ	Reposition Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PS834Z	Reposition Left Glenoid Cavity with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS844Z	Reposition Left Glenoid Cavity with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS84ZZ	Reposition Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS904Z	Reposition Right Clavicle with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PS90ZZ	Reposition Right Clavicle, Open Approach	PX	ICD-10-PCS
0PS934Z	Reposition Right Clavicle with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PS944Z	Reposition Right Clavicle with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PS94ZZ	Reposition Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSB04Z	Reposition Left Clavicle with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSB0ZZ	Reposition Left Clavicle, Open Approach	PX	ICD-10-PCS
0PSB34Z	Reposition Left Clavicle with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSB44Z	Reposition Left Clavicle with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSB4ZZ	Reposition Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSC04Z	Reposition Right Humeral Head with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSC05Z	Reposition Right Humeral Head with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSC06Z	Reposition Right Humeral Head with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSC0BZ	Reposition Right Humeral Head with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSC0CZ	Reposition Right Humeral Head with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSC0DZ	Reposition Right Humeral Head with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSC0ZZ	Reposition Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PSC34Z	Reposition Right Humeral Head with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSC35Z	Reposition Right Humeral Head with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSC36Z	Reposition Right Humeral Head with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSC3BZ	Reposition Right Humeral Head with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PSC3CZ	Reposition Right Humeral Head with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSC3DZ	Reposition Right Humeral Head with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSC44Z	Reposition Right Humeral Head with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSC45Z	Reposition Right Humeral Head with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSC46Z	Reposition Right Humeral Head with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSC4BZ	Reposition Right Humeral Head with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSC4CZ	Reposition Right Humeral Head with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSC4DZ	Reposition Right Humeral Head with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSC4ZZ	Reposition Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSD04Z	Reposition Left Humeral Head with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSD05Z	Reposition Left Humeral Head with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSD06Z	Reposition Left Humeral Head with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSD0BZ	Reposition Left Humeral Head with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSD0CZ	Reposition Left Humeral Head with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSD0DZ	Reposition Left Humeral Head with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSD0ZZ	Reposition Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PSD34Z	Reposition Left Humeral Head with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSD35Z	Reposition Left Humeral Head with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSD36Z	Reposition Left Humeral Head with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSD3BZ	Reposition Left Humeral Head with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSD3CZ	Reposition Left Humeral Head with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSD3DZ	Reposition Left Humeral Head with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSD44Z	Reposition Left Humeral Head with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSD45Z	Reposition Left Humeral Head with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PSD46Z	Reposition Left Humeral Head with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSD4BZ	Reposition Left Humeral Head with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSD4CZ	Reposition Left Humeral Head with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSD4DZ	Reposition Left Humeral Head with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSD4ZZ	Reposition Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSF04Z	Reposition Right Humeral Shaft with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSF05Z	Reposition Right Humeral Shaft with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSF06Z	Reposition Right Humeral Shaft with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSF0BZ	Reposition Right Humeral Shaft with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSF0CZ	Reposition Right Humeral Shaft with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSF0DZ	Reposition Right Humeral Shaft with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSF0ZZ	Reposition Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PSF34Z	Reposition Right Humeral Shaft with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSF35Z	Reposition Right Humeral Shaft with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSF36Z	Reposition Right Humeral Shaft with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSF3BZ	Reposition Right Humeral Shaft with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSF3CZ	Reposition Right Humeral Shaft with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSF3DZ	Reposition Right Humeral Shaft with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSF44Z	Reposition Right Humeral Shaft with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSF45Z	Reposition Right Humeral Shaft with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSF46Z	Reposition Right Humeral Shaft with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSF4BZ	Reposition Right Humeral Shaft with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSF4CZ	Reposition Right Humeral Shaft with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSF4DZ	Reposition Right Humeral Shaft with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSF4ZZ	Reposition Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PSG04Z	Reposition Left Humeral Shaft with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSG05Z	Reposition Left Humeral Shaft with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSG06Z	Reposition Left Humeral Shaft with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSG0BZ	Reposition Left Humeral Shaft with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSG0CZ	Reposition Left Humeral Shaft with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSG0DZ	Reposition Left Humeral Shaft with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSG0ZZ	Reposition Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PSG34Z	Reposition Left Humeral Shaft with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSG35Z	Reposition Left Humeral Shaft with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSG36Z	Reposition Left Humeral Shaft with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSG3BZ	Reposition Left Humeral Shaft with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSG3CZ	Reposition Left Humeral Shaft with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSG3DZ	Reposition Left Humeral Shaft with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSG44Z	Reposition Left Humeral Shaft with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSG45Z	Reposition Left Humeral Shaft with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSG46Z	Reposition Left Humeral Shaft with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSG4BZ	Reposition Left Humeral Shaft with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSG4CZ	Reposition Left Humeral Shaft with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSG4DZ	Reposition Left Humeral Shaft with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSG4ZZ	Reposition Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSH04Z	Reposition Right Radius with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSH05Z	Reposition Right Radius with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSH06Z	Reposition Right Radius with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSH0BZ	Reposition Right Radius with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSH0CZ	Reposition Right Radius with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSH0DZ	Reposition Right Radius with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSH0ZZ	Reposition Right Radius, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PSH34Z	Reposition Right Radius with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSH35Z	Reposition Right Radius with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSH36Z	Reposition Right Radius with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSH3BZ	Reposition Right Radius with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSH3CZ	Reposition Right Radius with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSH3DZ	Reposition Right Radius with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSH44Z	Reposition Right Radius with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSH45Z	Reposition Right Radius with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSH46Z	Reposition Right Radius with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSH4BZ	Reposition Right Radius with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSH4CZ	Reposition Right Radius with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSH4DZ	Reposition Right Radius with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSH4ZZ	Reposition Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSJ04Z	Reposition Left Radius with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSJ05Z	Reposition Left Radius with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSJ06Z	Reposition Left Radius with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSJ0BZ	Reposition Left Radius with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSJ0CZ	Reposition Left Radius with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSJ0DZ	Reposition Left Radius with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSJ0ZZ	Reposition Left Radius, Open Approach	PX	ICD-10-PCS
0PSJ34Z	Reposition Left Radius with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSJ35Z	Reposition Left Radius with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSJ36Z	Reposition Left Radius with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSJ3BZ	Reposition Left Radius with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSJ3CZ	Reposition Left Radius with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSJ3DZ	Reposition Left Radius with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSJ44Z	Reposition Left Radius with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PSJ45Z	Reposition Left Radius with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSJ46Z	Reposition Left Radius with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSJ4BZ	Reposition Left Radius with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSJ4CZ	Reposition Left Radius with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSJ4DZ	Reposition Left Radius with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSJ4ZZ	Reposition Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSK04Z	Reposition Right Ulna with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSK05Z	Reposition Right Ulna with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSK06Z	Reposition Right Ulna with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSK0BZ	Reposition Right Ulna with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSK0CZ	Reposition Right Ulna with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSK0DZ	Reposition Right Ulna with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSK0ZZ	Reposition Right Ulna, Open Approach	PX	ICD-10-PCS
0PSK34Z	Reposition Right Ulna with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSK35Z	Reposition Right Ulna with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSK36Z	Reposition Right Ulna with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSK3BZ	Reposition Right Ulna with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSK3CZ	Reposition Right Ulna with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSK3DZ	Reposition Right Ulna with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSK44Z	Reposition Right Ulna with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSK45Z	Reposition Right Ulna with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSK46Z	Reposition Right Ulna with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSK4BZ	Reposition Right Ulna with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSK4CZ	Reposition Right Ulna with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSK4DZ	Reposition Right Ulna with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSK4ZZ	Reposition Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSL04Z	Reposition Left Ulna with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSL05Z	Reposition Left Ulna with External Fixation Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PSL06Z	Reposition Left Ulna with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSL0BZ	Reposition Left Ulna with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSL0CZ	Reposition Left Ulna with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSL0DZ	Reposition Left Ulna with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSL0ZZ	Reposition Left Ulna, Open Approach	PX	ICD-10-PCS
0PSL34Z	Reposition Left Ulna with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSL35Z	Reposition Left Ulna with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSL36Z	Reposition Left Ulna with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSL3BZ	Reposition Left Ulna with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSL3CZ	Reposition Left Ulna with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSL3DZ	Reposition Left Ulna with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSL44Z	Reposition Left Ulna with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSL45Z	Reposition Left Ulna with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSL46Z	Reposition Left Ulna with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSL4BZ	Reposition Left Ulna with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSL4CZ	Reposition Left Ulna with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSL4DZ	Reposition Left Ulna with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSL4ZZ	Reposition Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSM04Z	Reposition Right Carpal with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSM05Z	Reposition Right Carpal with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSM0ZZ	Reposition Right Carpal, Open Approach	PX	ICD-10-PCS
0PSM34Z	Reposition Right Carpal with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSM35Z	Reposition Right Carpal with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSM44Z	Reposition Right Carpal with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSM45Z	Reposition Right Carpal with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSM4ZZ	Reposition Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSN04Z	Reposition Left Carpal with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSN05Z	Reposition Left Carpal with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSN0ZZ	Reposition Left Carpal, Open Approach	PX	ICD-10-PCS
0PSN34Z	Reposition Left Carpal with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSN35Z	Reposition Left Carpal with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSN44Z	Reposition Left Carpal with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PSN45Z	Reposition Left Carpal with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSN4ZZ	Reposition Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSP04Z	Reposition Right Metacarpal with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSP05Z	Reposition Right Metacarpal with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSP0ZZ	Reposition Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PSP34Z	Reposition Right Metacarpal with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSP35Z	Reposition Right Metacarpal with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSP44Z	Reposition Right Metacarpal with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSP45Z	Reposition Right Metacarpal with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSP4ZZ	Reposition Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSQ04Z	Reposition Left Metacarpal with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSQ05Z	Reposition Left Metacarpal with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSQ0ZZ	Reposition Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PSQ34Z	Reposition Left Metacarpal with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSQ35Z	Reposition Left Metacarpal with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSQ44Z	Reposition Left Metacarpal with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSQ45Z	Reposition Left Metacarpal with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSQ4ZZ	Reposition Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSR04Z	Reposition Right Thumb Phalanx with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSR05Z	Reposition Right Thumb Phalanx with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSR0ZZ	Reposition Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PSR34Z	Reposition Right Thumb Phalanx with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSR35Z	Reposition Right Thumb Phalanx with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSR44Z	Reposition Right Thumb Phalanx with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSR45Z	Reposition Right Thumb Phalanx with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSR4ZZ	Reposition Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSS04Z	Reposition Left Thumb Phalanx with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSS05Z	Reposition Left Thumb Phalanx with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSS0ZZ	Reposition Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PSS34Z	Reposition Left Thumb Phalanx with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PSS35Z	Reposition Left Thumb Phalanx with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSS44Z	Reposition Left Thumb Phalanx with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSS45Z	Reposition Left Thumb Phalanx with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSS4ZZ	Reposition Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PST04Z	Reposition Right Finger Phalanx with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PST05Z	Reposition Right Finger Phalanx with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PST0ZZ	Reposition Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PST34Z	Reposition Right Finger Phalanx with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PST35Z	Reposition Right Finger Phalanx with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PST44Z	Reposition Right Finger Phalanx with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PST45Z	Reposition Right Finger Phalanx with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PST4ZZ	Reposition Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSV04Z	Reposition Left Finger Phalanx with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0PSV05Z	Reposition Left Finger Phalanx with External Fixation Device, Open Approach	PX	ICD-10-PCS
0PSV0ZZ	Reposition Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PSV34Z	Reposition Left Finger Phalanx with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSV35Z	Reposition Left Finger Phalanx with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0PSV44Z	Reposition Left Finger Phalanx with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSV45Z	Reposition Left Finger Phalanx with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PSV4ZZ	Reposition Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PT00ZZ	Resection of Sternum, Open Approach	PX	ICD-10-PCS
0PT10ZZ	Resection of 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PT20ZZ	Resection of 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PT50ZZ	Resection of Right Scapula, Open Approach	PX	ICD-10-PCS
0PT60ZZ	Resection of Left Scapula, Open Approach	PX	ICD-10-PCS
0PT70ZZ	Resection of Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PT80ZZ	Resection of Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PT90ZZ	Resection of Right Clavicle, Open Approach	PX	ICD-10-PCS
0PTB0ZZ	Resection of Left Clavicle, Open Approach	PX	ICD-10-PCS
0PTC0ZZ	Resection of Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PTD0ZZ	Resection of Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PTF0ZZ	Resection of Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PTG0ZZ	Resection of Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PTH0ZZ	Resection of Right Radius, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PTJ0ZZ	Resection of Left Radius, Open Approach	PX	ICD-10-PCS
0PTK0ZZ	Resection of Right Ulna, Open Approach	PX	ICD-10-PCS
0PTL0ZZ	Resection of Left Ulna, Open Approach	PX	ICD-10-PCS
0PTM0ZZ	Resection of Right Carpal, Open Approach	PX	ICD-10-PCS
0PTN0ZZ	Resection of Left Carpal, Open Approach	PX	ICD-10-PCS
0PTP0ZZ	Resection of Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PTQ0ZZ	Resection of Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PTR0ZZ	Resection of Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PTS0ZZ	Resection of Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PTT0ZZ	Resection of Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PTV0ZZ	Resection of Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PU007Z	Supplement Sternum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU00JZ	Supplement Sternum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PU00KZ	Supplement Sternum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU037Z	Supplement Sternum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU03JZ	Supplement Sternum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU03KZ	Supplement Sternum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU047Z	Supplement Sternum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU04JZ	Supplement Sternum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU04KZ	Supplement Sternum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU107Z	Supplement 1 to 2 Ribs with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU10JZ	Supplement 1 to 2 Ribs with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PU10KZ	Supplement 1 to 2 Ribs with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU137Z	Supplement 1 to 2 Ribs with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU13JZ	Supplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU13KZ	Supplement 1 to 2 Ribs with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU147Z	Supplement 1 to 2 Ribs with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU14JZ	Supplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU14KZ	Supplement 1 to 2 Ribs with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU207Z	Supplement 3 or More Ribs with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU20JZ	Supplement 3 or More Ribs with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PU20KZ	Supplement 3 or More Ribs with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU237Z	Supplement 3 or More Ribs with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PU23JZ	Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU23KZ	Supplement 3 or More Ribs with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU247Z	Supplement 3 or More Ribs with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU24JZ	Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU24KZ	Supplement 3 or More Ribs with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU307Z	Supplement Cervical Vertebra with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU30JZ	Supplement Cervical Vertebra with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PU30KZ	Supplement Cervical Vertebra with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU337Z	Supplement Cervical Vertebra with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU33JZ	Supplement Cervical Vertebra with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU33KZ	Supplement Cervical Vertebra with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU347Z	Supplement Cervical Vertebra with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU34JZ	Supplement Cervical Vertebra with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU34KZ	Supplement Cervical Vertebra with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU407Z	Supplement Thoracic Vertebra with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU40JZ	Supplement Thoracic Vertebra with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PU40KZ	Supplement Thoracic Vertebra with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU437Z	Supplement Thoracic Vertebra with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU43JZ	Supplement Thoracic Vertebra with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU43KZ	Supplement Thoracic Vertebra with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU447Z	Supplement Thoracic Vertebra with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU44JZ	Supplement Thoracic Vertebra with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU44KZ	Supplement Thoracic Vertebra with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU507Z	Supplement Right Scapula with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU50JZ	Supplement Right Scapula with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PU50KZ	Supplement Right Scapula with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU537Z	Supplement Right Scapula with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU53JZ	Supplement Right Scapula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU53KZ	Supplement Right Scapula with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU547Z	Supplement Right Scapula with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU54JZ	Supplement Right Scapula with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU54KZ	Supplement Right Scapula with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU607Z	Supplement Left Scapula with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU60JZ	Supplement Left Scapula with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PU60KZ	Supplement Left Scapula with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU637Z	Supplement Left Scapula with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU63JZ	Supplement Left Scapula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU63KZ	Supplement Left Scapula with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU647Z	Supplement Left Scapula with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU64JZ	Supplement Left Scapula with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU64KZ	Supplement Left Scapula with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU707Z	Supplement Right Glenoid Cavity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU70JZ	Supplement Right Glenoid Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PU70KZ	Supplement Right Glenoid Cavity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU737Z	Supplement Right Glenoid Cavity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU73JZ	Supplement Right Glenoid Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU73KZ	Supplement Right Glenoid Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU747Z	Supplement Right Glenoid Cavity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU74JZ	Supplement Right Glenoid Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU74KZ	Supplement Right Glenoid Cavity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PU807Z	Supplement Left Glenoid Cavity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU80JZ	Supplement Left Glenoid Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PU80KZ	Supplement Left Glenoid Cavity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU837Z	Supplement Left Glenoid Cavity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU83JZ	Supplement Left Glenoid Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU83KZ	Supplement Left Glenoid Cavity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU847Z	Supplement Left Glenoid Cavity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU84JZ	Supplement Left Glenoid Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU84KZ	Supplement Left Glenoid Cavity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU907Z	Supplement Right Clavicle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU90JZ	Supplement Right Clavicle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PU90KZ	Supplement Right Clavicle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PU937Z	Supplement Right Clavicle with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU93JZ	Supplement Right Clavicle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU93KZ	Supplement Right Clavicle with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PU947Z	Supplement Right Clavicle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU94JZ	Supplement Right Clavicle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PU94KZ	Supplement Right Clavicle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUB07Z	Supplement Left Clavicle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUB0JZ	Supplement Left Clavicle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUB0KZ	Supplement Left Clavicle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUB37Z	Supplement Left Clavicle with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUB3JZ	Supplement Left Clavicle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUB3KZ	Supplement Left Clavicle with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUB47Z	Supplement Left Clavicle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUB4JZ	Supplement Left Clavicle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PUB4KZ	Supplement Left Clavicle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUC07Z	Supplement Right Humeral Head with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUC0JZ	Supplement Right Humeral Head with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUC0KZ	Supplement Right Humeral Head with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUC37Z	Supplement Right Humeral Head with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUC3JZ	Supplement Right Humeral Head with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUC3KZ	Supplement Right Humeral Head with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUC47Z	Supplement Right Humeral Head with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUC4JZ	Supplement Right Humeral Head with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUC4KZ	Supplement Right Humeral Head with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUD07Z	Supplement Left Humeral Head with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUD0JZ	Supplement Left Humeral Head with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUD0KZ	Supplement Left Humeral Head with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUD37Z	Supplement Left Humeral Head with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUD3JZ	Supplement Left Humeral Head with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUD3KZ	Supplement Left Humeral Head with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUD47Z	Supplement Left Humeral Head with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUD4JZ	Supplement Left Humeral Head with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUD4KZ	Supplement Left Humeral Head with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUF07Z	Supplement Right Humeral Shaft with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUF0JZ	Supplement Right Humeral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUF0KZ	Supplement Right Humeral Shaft with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUF37Z	Supplement Right Humeral Shaft with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUF3JZ	Supplement Right Humeral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PUF3KZ	Supplement Right Humeral Shaft with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUF47Z	Supplement Right Humeral Shaft with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUF4JZ	Supplement Right Humeral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUF4KZ	Supplement Right Humeral Shaft with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUG07Z	Supplement Left Humeral Shaft with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUG0JZ	Supplement Left Humeral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUG0KZ	Supplement Left Humeral Shaft with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUG37Z	Supplement Left Humeral Shaft with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUG3JZ	Supplement Left Humeral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUG3KZ	Supplement Left Humeral Shaft with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUG47Z	Supplement Left Humeral Shaft with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUG4JZ	Supplement Left Humeral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUG4KZ	Supplement Left Humeral Shaft with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUH07Z	Supplement Right Radius with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUH0JZ	Supplement Right Radius with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUH0KZ	Supplement Right Radius with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUH37Z	Supplement Right Radius with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUH3JZ	Supplement Right Radius with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUH3KZ	Supplement Right Radius with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUH47Z	Supplement Right Radius with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUH4JZ	Supplement Right Radius with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUH4KZ	Supplement Right Radius with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUJ07Z	Supplement Left Radius with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUJ0JZ	Supplement Left Radius with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUJ0KZ	Supplement Left Radius with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUJ37Z	Supplement Left Radius with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PUJ3JZ	Supplement Left Radius with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUJ3KZ	Supplement Left Radius with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUJ47Z	Supplement Left Radius with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUJ4JZ	Supplement Left Radius with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUJ4KZ	Supplement Left Radius with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUK07Z	Supplement Right Ulna with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUK0JZ	Supplement Right Ulna with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUK0KZ	Supplement Right Ulna with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUK37Z	Supplement Right Ulna with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUK3JZ	Supplement Right Ulna with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUK3KZ	Supplement Right Ulna with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUK47Z	Supplement Right Ulna with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUK4JZ	Supplement Right Ulna with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUK4KZ	Supplement Right Ulna with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUL07Z	Supplement Left Ulna with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUL0JZ	Supplement Left Ulna with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUL0KZ	Supplement Left Ulna with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUL37Z	Supplement Left Ulna with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUL3JZ	Supplement Left Ulna with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUL3KZ	Supplement Left Ulna with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUL47Z	Supplement Left Ulna with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUL4JZ	Supplement Left Ulna with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUL4KZ	Supplement Left Ulna with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUM07Z	Supplement Right Carpal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUM0JZ	Supplement Right Carpal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUM0KZ	Supplement Right Carpal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUM37Z	Supplement Right Carpal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUM3JZ	Supplement Right Carpal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PUM3KZ	Supplement Right Carpal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUM47Z	Supplement Right Carpal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUM4JZ	Supplement Right Carpal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUM4KZ	Supplement Right Carpal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUN07Z	Supplement Left Carpal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUN0JZ	Supplement Left Carpal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUN0KZ	Supplement Left Carpal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUN37Z	Supplement Left Carpal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUN3JZ	Supplement Left Carpal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUN3KZ	Supplement Left Carpal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUN47Z	Supplement Left Carpal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUN4JZ	Supplement Left Carpal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUN4KZ	Supplement Left Carpal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUP07Z	Supplement Right Metacarpal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUP0JZ	Supplement Right Metacarpal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUP0KZ	Supplement Right Metacarpal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUP37Z	Supplement Right Metacarpal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUP3JZ	Supplement Right Metacarpal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUP3KZ	Supplement Right Metacarpal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUP47Z	Supplement Right Metacarpal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUP4JZ	Supplement Right Metacarpal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUP4KZ	Supplement Right Metacarpal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUQ07Z	Supplement Left Metacarpal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUQ0JZ	Supplement Left Metacarpal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUQ0KZ	Supplement Left Metacarpal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUQ37Z	Supplement Left Metacarpal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PUQ3JZ	Supplement Left Metacarpal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUQ3KZ	Supplement Left Metacarpal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUQ47Z	Supplement Left Metacarpal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUQ4JZ	Supplement Left Metacarpal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUQ4KZ	Supplement Left Metacarpal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUR07Z	Supplement Right Thumb Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUR0JZ	Supplement Right Thumb Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUR0KZ	Supplement Right Thumb Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUR37Z	Supplement Right Thumb Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUR3JZ	Supplement Right Thumb Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUR3KZ	Supplement Right Thumb Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUR47Z	Supplement Right Thumb Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUR4JZ	Supplement Right Thumb Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUR4KZ	Supplement Right Thumb Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUS07Z	Supplement Left Thumb Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUS0JZ	Supplement Left Thumb Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUS0KZ	Supplement Left Thumb Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUS37Z	Supplement Left Thumb Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUS3JZ	Supplement Left Thumb Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUS3KZ	Supplement Left Thumb Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUS47Z	Supplement Left Thumb Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUS4JZ	Supplement Left Thumb Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUS4KZ	Supplement Left Thumb Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUT07Z	Supplement Right Finger Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PUT0JZ	Supplement Right Finger Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUT0KZ	Supplement Right Finger Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUT37Z	Supplement Right Finger Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUT3JZ	Supplement Right Finger Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUT3KZ	Supplement Right Finger Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUT47Z	Supplement Right Finger Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUT4JZ	Supplement Right Finger Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUT4KZ	Supplement Right Finger Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUV07Z	Supplement Left Finger Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUV0JZ	Supplement Left Finger Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0PUV0KZ	Supplement Left Finger Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0PUV37Z	Supplement Left Finger Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUV3JZ	Supplement Left Finger Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUV3KZ	Supplement Left Finger Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0PUV47Z	Supplement Left Finger Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUV4JZ	Supplement Left Finger Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PUV4KZ	Supplement Left Finger Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW004Z	Revision of Internal Fixation Device in Sternum, Open Approach	PX	ICD-10-PCS
0PW007Z	Revision of Autologous Tissue Substitute in Sternum, Open Approach	PX	ICD-10-PCS
0PW00JZ	Revision of Synthetic Substitute in Sternum, Open Approach	PX	ICD-10-PCS
0PW00KZ	Revision of Nonautologous Tissue Substitute in Sternum, Open Approach	PX	ICD-10-PCS
0PW034Z	Revision of Internal Fixation Device in Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PW037Z	Revision of Autologous Tissue Substitute in Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PW03JZ	Revision of Synthetic Substitute in Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PW03KZ	Revision of Nonautologous Tissue Substitute in Sternum, Percutaneous Approach	PX	ICD-10-PCS
0PW044Z	Revision of Internal Fixation Device in Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW047Z	Revision of Autologous Tissue Substitute in Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PW04JZ	Revision of Synthetic Substitute in Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW04KZ	Revision of Nonautologous Tissue Substitute in Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW104Z	Revision of Internal Fixation Device in 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PW107Z	Revision of Autologous Tissue Substitute in 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PW10JZ	Revision of Synthetic Substitute in 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PW10KZ	Revision of Nonautologous Tissue Substitute in 1 to 2 Ribs, Open Approach	PX	ICD-10-PCS
0PW134Z	Revision of Internal Fixation Device in 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PW137Z	Revision of Autologous Tissue Substitute in 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PW13JZ	Revision of Synthetic Substitute in 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PW13KZ	Revision of Nonautologous Tissue Substitute in 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PW144Z	Revision of Internal Fixation Device in 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW147Z	Revision of Autologous Tissue Substitute in 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW14JZ	Revision of Synthetic Substitute in 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW14KZ	Revision of Nonautologous Tissue Substitute in 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW204Z	Revision of Internal Fixation Device in 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PW207Z	Revision of Autologous Tissue Substitute in 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PW20JZ	Revision of Synthetic Substitute in 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PW20KZ	Revision of Nonautologous Tissue Substitute in 3 or More Ribs, Open Approach	PX	ICD-10-PCS
0PW234Z	Revision of Internal Fixation Device in 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PW237Z	Revision of Autologous Tissue Substitute in 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PW23JZ	Revision of Synthetic Substitute in 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PW23KZ	Revision of Nonautologous Tissue Substitute in 3 or More Ribs, Percutaneous Approach	PX	ICD-10-PCS
0PW244Z	Revision of Internal Fixation Device in 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW247Z	Revision of Autologous Tissue Substitute in 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW24JZ	Revision of Synthetic Substitute in 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW24KZ	Revision of Nonautologous Tissue Substitute in 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW304Z	Revision of Internal Fixation Device in Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PW307Z	Revision of Autologous Tissue Substitute in Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PW30JZ	Revision of Synthetic Substitute in Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PW30KZ	Revision of Nonautologous Tissue Substitute in Cervical Vertebra, Open Approach	PX	ICD-10-PCS
0PW334Z	Revision of Internal Fixation Device in Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PW337Z	Revision of Autologous Tissue Substitute in Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PW33JZ	Revision of Synthetic Substitute in Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PW33KZ	Revision of Nonautologous Tissue Substitute in Cervical Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PW344Z	Revision of Internal Fixation Device in Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW347Z	Revision of Autologous Tissue Substitute in Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW34JZ	Revision of Synthetic Substitute in Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW34KZ	Revision of Nonautologous Tissue Substitute in Cervical Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW404Z	Revision of Internal Fixation Device in Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PW407Z	Revision of Autologous Tissue Substitute in Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PW40JZ	Revision of Synthetic Substitute in Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PW40KZ	Revision of Nonautologous Tissue Substitute in Thoracic Vertebra, Open Approach	PX	ICD-10-PCS
0PW434Z	Revision of Internal Fixation Device in Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PW437Z	Revision of Autologous Tissue Substitute in Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PW43JZ	Revision of Synthetic Substitute in Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PW43KZ	Revision of Nonautologous Tissue Substitute in Thoracic Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0PW444Z	Revision of Internal Fixation Device in Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW447Z	Revision of Autologous Tissue Substitute in Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW44JZ	Revision of Synthetic Substitute in Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW44KZ	Revision of Nonautologous Tissue Substitute in Thoracic Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW504Z	Revision of Internal Fixation Device in Right Scapula, Open Approach	PX	ICD-10-PCS
0PW507Z	Revision of Autologous Tissue Substitute in Right Scapula, Open Approach	PX	ICD-10-PCS
0PW50JZ	Revision of Synthetic Substitute in Right Scapula, Open Approach	PX	ICD-10-PCS
0PW50KZ	Revision of Nonautologous Tissue Substitute in Right Scapula, Open Approach	PX	ICD-10-PCS
0PW534Z	Revision of Internal Fixation Device in Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PW537Z	Revision of Autologous Tissue Substitute in Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PW53JZ	Revision of Synthetic Substitute in Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PW53KZ	Revision of Nonautologous Tissue Substitute in Right Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PW544Z	Revision of Internal Fixation Device in Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PW547Z	Revision of Autologous Tissue Substitute in Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW54JZ	Revision of Synthetic Substitute in Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW54KZ	Revision of Nonautologous Tissue Substitute in Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW604Z	Revision of Internal Fixation Device in Left Scapula, Open Approach	PX	ICD-10-PCS
0PW607Z	Revision of Autologous Tissue Substitute in Left Scapula, Open Approach	PX	ICD-10-PCS
0PW60JZ	Revision of Synthetic Substitute in Left Scapula, Open Approach	PX	ICD-10-PCS
0PW60KZ	Revision of Nonautologous Tissue Substitute in Left Scapula, Open Approach	PX	ICD-10-PCS
0PW634Z	Revision of Internal Fixation Device in Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PW637Z	Revision of Autologous Tissue Substitute in Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PW63JZ	Revision of Synthetic Substitute in Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PW63KZ	Revision of Nonautologous Tissue Substitute in Left Scapula, Percutaneous Approach	PX	ICD-10-PCS
0PW644Z	Revision of Internal Fixation Device in Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW647Z	Revision of Autologous Tissue Substitute in Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW64JZ	Revision of Synthetic Substitute in Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW64KZ	Revision of Nonautologous Tissue Substitute in Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW704Z	Revision of Internal Fixation Device in Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PW707Z	Revision of Autologous Tissue Substitute in Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PW70JZ	Revision of Synthetic Substitute in Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PW70KZ	Revision of Nonautologous Tissue Substitute in Right Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PW734Z	Revision of Internal Fixation Device in Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PW737Z	Revision of Autologous Tissue Substitute in Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PW73JZ	Revision of Synthetic Substitute in Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PW73KZ	Revision of Nonautologous Tissue Substitute in Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PW744Z	Revision of Internal Fixation Device in Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW747Z	Revision of Autologous Tissue Substitute in Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW74JZ	Revision of Synthetic Substitute in Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW74KZ	Revision of Nonautologous Tissue Substitute in Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PW804Z	Revision of Internal Fixation Device in Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PW807Z	Revision of Autologous Tissue Substitute in Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PW80JZ	Revision of Synthetic Substitute in Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PW80KZ	Revision of Nonautologous Tissue Substitute in Left Glenoid Cavity, Open Approach	PX	ICD-10-PCS
0PW834Z	Revision of Internal Fixation Device in Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PW837Z	Revision of Autologous Tissue Substitute in Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PW83JZ	Revision of Synthetic Substitute in Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PW83KZ	Revision of Nonautologous Tissue Substitute in Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-PCS
0PW844Z	Revision of Internal Fixation Device in Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW847Z	Revision of Autologous Tissue Substitute in Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW84JZ	Revision of Synthetic Substitute in Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW84KZ	Revision of Nonautologous Tissue Substitute in Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW904Z	Revision of Internal Fixation Device in Right Clavicle, Open Approach	PX	ICD-10-PCS
0PW907Z	Revision of Autologous Tissue Substitute in Right Clavicle, Open Approach	PX	ICD-10-PCS
0PW90JZ	Revision of Synthetic Substitute in Right Clavicle, Open Approach	PX	ICD-10-PCS
0PW90KZ	Revision of Nonautologous Tissue Substitute in Right Clavicle, Open Approach	PX	ICD-10-PCS
0PW934Z	Revision of Internal Fixation Device in Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PW937Z	Revision of Autologous Tissue Substitute in Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PW93JZ	Revision of Synthetic Substitute in Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PW93KZ	Revision of Nonautologous Tissue Substitute in Right Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PW944Z	Revision of Internal Fixation Device in Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW947Z	Revision of Autologous Tissue Substitute in Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW94JZ	Revision of Synthetic Substitute in Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PW94KZ	Revision of Nonautologous Tissue Substitute in Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWB04Z	Revision of Internal Fixation Device in Left Clavicle, Open Approach	PX	ICD-10-PCS
0PWB07Z	Revision of Autologous Tissue Substitute in Left Clavicle, Open Approach	PX	ICD-10-PCS
0PWB0JZ	Revision of Synthetic Substitute in Left Clavicle, Open Approach	PX	ICD-10-PCS
0PWB0KZ	Revision of Nonautologous Tissue Substitute in Left Clavicle, Open Approach	PX	ICD-10-PCS
0PWB34Z	Revision of Internal Fixation Device in Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PWB37Z	Revision of Autologous Tissue Substitute in Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PWB3JZ	Revision of Synthetic Substitute in Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PWB3KZ	Revision of Nonautologous Tissue Substitute in Left Clavicle, Percutaneous Approach	PX	ICD-10-PCS
0PWB44Z	Revision of Internal Fixation Device in Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWB47Z	Revision of Autologous Tissue Substitute in Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWB4JZ	Revision of Synthetic Substitute in Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWB4KZ	Revision of Nonautologous Tissue Substitute in Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWC04Z	Revision of Internal Fixation Device in Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PWC05Z	Revision of External Fixation Device in Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PWC07Z	Revision of Autologous Tissue Substitute in Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PWC0JZ	Revision of Synthetic Substitute in Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PWC0KZ	Revision of Nonautologous Tissue Substitute in Right Humeral Head, Open Approach	PX	ICD-10-PCS
0PWC34Z	Revision of Internal Fixation Device in Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PWC35Z	Revision of External Fixation Device in Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PWC37Z	Revision of Autologous Tissue Substitute in Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PWC3JZ	Revision of Synthetic Substitute in Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PWC3KZ	Revision of Nonautologous Tissue Substitute in Right Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PWC44Z	Revision of Internal Fixation Device in Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWC45Z	Revision of External Fixation Device in Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWC47Z	Revision of Autologous Tissue Substitute in Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWC4JZ	Revision of Synthetic Substitute in Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWC4KZ	Revision of Nonautologous Tissue Substitute in Right Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWD04Z	Revision of Internal Fixation Device in Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PWD05Z	Revision of External Fixation Device in Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PWD07Z	Revision of Autologous Tissue Substitute in Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PWD0JZ	Revision of Synthetic Substitute in Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PWD0KZ	Revision of Nonautologous Tissue Substitute in Left Humeral Head, Open Approach	PX	ICD-10-PCS
0PWD34Z	Revision of Internal Fixation Device in Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PWD35Z	Revision of External Fixation Device in Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PWD37Z	Revision of Autologous Tissue Substitute in Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PWD3JZ	Revision of Synthetic Substitute in Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PWD3KZ	Revision of Nonautologous Tissue Substitute in Left Humeral Head, Percutaneous Approach	PX	ICD-10-PCS
0PWD44Z	Revision of Internal Fixation Device in Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWD45Z	Revision of External Fixation Device in Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWD47Z	Revision of Autologous Tissue Substitute in Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWD4JZ	Revision of Synthetic Substitute in Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWD4KZ	Revision of Nonautologous Tissue Substitute in Left Humeral Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWF04Z	Revision of Internal Fixation Device in Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PWF05Z	Revision of External Fixation Device in Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PWF07Z	Revision of Autologous Tissue Substitute in Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PWF0JZ	Revision of Synthetic Substitute in Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PWF0KZ	Revision of Nonautologous Tissue Substitute in Right Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PWF34Z	Revision of Internal Fixation Device in Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PWF35Z	Revision of External Fixation Device in Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PWF37Z	Revision of Autologous Tissue Substitute in Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PWF3JZ	Revision of Synthetic Substitute in Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PWF3KZ	Revision of Nonautologous Tissue Substitute in Right Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PWF44Z	Revision of Internal Fixation Device in Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWF45Z	Revision of External Fixation Device in Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWF47Z	Revision of Autologous Tissue Substitute in Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWF4JZ	Revision of Synthetic Substitute in Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWF4KZ	Revision of Nonautologous Tissue Substitute in Right Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWG04Z	Revision of Internal Fixation Device in Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PWG05Z	Revision of External Fixation Device in Left Humeral Shaft, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PWG07Z	Revision of Autologous Tissue Substitute in Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PWG0JZ	Revision of Synthetic Substitute in Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PWG0KZ	Revision of Nonautologous Tissue Substitute in Left Humeral Shaft, Open Approach	PX	ICD-10-PCS
0PWG34Z	Revision of Internal Fixation Device in Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PWG35Z	Revision of External Fixation Device in Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PWG37Z	Revision of Autologous Tissue Substitute in Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PWG3JZ	Revision of Synthetic Substitute in Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PWG3KZ	Revision of Nonautologous Tissue Substitute in Left Humeral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0PWG44Z	Revision of Internal Fixation Device in Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWG45Z	Revision of External Fixation Device in Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWG47Z	Revision of Autologous Tissue Substitute in Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWG4JZ	Revision of Synthetic Substitute in Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWG4KZ	Revision of Nonautologous Tissue Substitute in Left Humeral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWH04Z	Revision of Internal Fixation Device in Right Radius, Open Approach	PX	ICD-10-PCS
0PWH05Z	Revision of External Fixation Device in Right Radius, Open Approach	PX	ICD-10-PCS
0PWH07Z	Revision of Autologous Tissue Substitute in Right Radius, Open Approach	PX	ICD-10-PCS
0PWH0JZ	Revision of Synthetic Substitute in Right Radius, Open Approach	PX	ICD-10-PCS
0PWH0KZ	Revision of Nonautologous Tissue Substitute in Right Radius, Open Approach	PX	ICD-10-PCS
0PWH34Z	Revision of Internal Fixation Device in Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PWH35Z	Revision of External Fixation Device in Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PWH37Z	Revision of Autologous Tissue Substitute in Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PWH3JZ	Revision of Synthetic Substitute in Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PWH3KZ	Revision of Nonautologous Tissue Substitute in Right Radius, Percutaneous Approach	PX	ICD-10-PCS
0PWH44Z	Revision of Internal Fixation Device in Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWH45Z	Revision of External Fixation Device in Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWH47Z	Revision of Autologous Tissue Substitute in Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWH4JZ	Revision of Synthetic Substitute in Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWH4KZ	Revision of Nonautologous Tissue Substitute in Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PWJ04Z	Revision of Internal Fixation Device in Left Radius, Open Approach	PX	ICD-10-PCS
0PWJ05Z	Revision of External Fixation Device in Left Radius, Open Approach	PX	ICD-10-PCS
0PWJ07Z	Revision of Autologous Tissue Substitute in Left Radius, Open Approach	PX	ICD-10-PCS
0PWJ0JZ	Revision of Synthetic Substitute in Left Radius, Open Approach	PX	ICD-10-PCS
0PWJ0KZ	Revision of Nonautologous Tissue Substitute in Left Radius, Open Approach	PX	ICD-10-PCS
0PWJ34Z	Revision of Internal Fixation Device in Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PWJ35Z	Revision of External Fixation Device in Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PWJ37Z	Revision of Autologous Tissue Substitute in Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PWJ3JZ	Revision of Synthetic Substitute in Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PWJ3KZ	Revision of Nonautologous Tissue Substitute in Left Radius, Percutaneous Approach	PX	ICD-10-PCS
0PWJ44Z	Revision of Internal Fixation Device in Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWJ45Z	Revision of External Fixation Device in Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWJ47Z	Revision of Autologous Tissue Substitute in Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWJ4JZ	Revision of Synthetic Substitute in Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWJ4KZ	Revision of Nonautologous Tissue Substitute in Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWK04Z	Revision of Internal Fixation Device in Right Ulna, Open Approach	PX	ICD-10-PCS
0PWK05Z	Revision of External Fixation Device in Right Ulna, Open Approach	PX	ICD-10-PCS
0PWK07Z	Revision of Autologous Tissue Substitute in Right Ulna, Open Approach	PX	ICD-10-PCS
0PWK0JZ	Revision of Synthetic Substitute in Right Ulna, Open Approach	PX	ICD-10-PCS
0PWK0KZ	Revision of Nonautologous Tissue Substitute in Right Ulna, Open Approach	PX	ICD-10-PCS
0PWK34Z	Revision of Internal Fixation Device in Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PWK35Z	Revision of External Fixation Device in Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PWK37Z	Revision of Autologous Tissue Substitute in Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PWK3JZ	Revision of Synthetic Substitute in Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PWK3KZ	Revision of Nonautologous Tissue Substitute in Right Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PWK44Z	Revision of Internal Fixation Device in Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWK45Z	Revision of External Fixation Device in Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWK47Z	Revision of Autologous Tissue Substitute in Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWK4JZ	Revision of Synthetic Substitute in Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWK4KZ	Revision of Nonautologous Tissue Substitute in Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWL04Z	Revision of Internal Fixation Device in Left Ulna, Open Approach	PX	ICD-10-PCS
0PWL05Z	Revision of External Fixation Device in Left Ulna, Open Approach	PX	ICD-10-PCS
0PWL07Z	Revision of Autologous Tissue Substitute in Left Ulna, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PWL0JZ	Revision of Synthetic Substitute in Left Ulna, Open Approach	PX	ICD-10-PCS
0PWL0KZ	Revision of Nonautologous Tissue Substitute in Left Ulna, Open Approach	PX	ICD-10-PCS
0PWL34Z	Revision of Internal Fixation Device in Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PWL35Z	Revision of External Fixation Device in Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PWL37Z	Revision of Autologous Tissue Substitute in Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PWL3JZ	Revision of Synthetic Substitute in Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PWL3KZ	Revision of Nonautologous Tissue Substitute in Left Ulna, Percutaneous Approach	PX	ICD-10-PCS
0PWL44Z	Revision of Internal Fixation Device in Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWL45Z	Revision of External Fixation Device in Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWL47Z	Revision of Autologous Tissue Substitute in Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWL4JZ	Revision of Synthetic Substitute in Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWL4KZ	Revision of Nonautologous Tissue Substitute in Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWM04Z	Revision of Internal Fixation Device in Right Carpal, Open Approach	PX	ICD-10-PCS
0PWM05Z	Revision of External Fixation Device in Right Carpal, Open Approach	PX	ICD-10-PCS
0PWM07Z	Revision of Autologous Tissue Substitute in Right Carpal, Open Approach	PX	ICD-10-PCS
0PWM0JZ	Revision of Synthetic Substitute in Right Carpal, Open Approach	PX	ICD-10-PCS
0PWM0KZ	Revision of Nonautologous Tissue Substitute in Right Carpal, Open Approach	PX	ICD-10-PCS
0PWM34Z	Revision of Internal Fixation Device in Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PWM35Z	Revision of External Fixation Device in Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PWM37Z	Revision of Autologous Tissue Substitute in Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PWM3JZ	Revision of Synthetic Substitute in Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PWM3KZ	Revision of Nonautologous Tissue Substitute in Right Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PWM44Z	Revision of Internal Fixation Device in Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWM45Z	Revision of External Fixation Device in Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWM47Z	Revision of Autologous Tissue Substitute in Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWM4JZ	Revision of Synthetic Substitute in Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWM4KZ	Revision of Nonautologous Tissue Substitute in Right Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWN04Z	Revision of Internal Fixation Device in Left Carpal, Open Approach	PX	ICD-10-PCS
0PWN05Z	Revision of External Fixation Device in Left Carpal, Open Approach	PX	ICD-10-PCS
0PWN07Z	Revision of Autologous Tissue Substitute in Left Carpal, Open Approach	PX	ICD-10-PCS
0PWN0JZ	Revision of Synthetic Substitute in Left Carpal, Open Approach	PX	ICD-10-PCS
0PWN0KZ	Revision of Nonautologous Tissue Substitute in Left Carpal, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PWN34Z	Revision of Internal Fixation Device in Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PWN35Z	Revision of External Fixation Device in Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PWN37Z	Revision of Autologous Tissue Substitute in Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PWN3JZ	Revision of Synthetic Substitute in Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PWN3KZ	Revision of Nonautologous Tissue Substitute in Left Carpal, Percutaneous Approach	PX	ICD-10-PCS
0PWN44Z	Revision of Internal Fixation Device in Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWN45Z	Revision of External Fixation Device in Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWN47Z	Revision of Autologous Tissue Substitute in Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWN4JZ	Revision of Synthetic Substitute in Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWN4KZ	Revision of Nonautologous Tissue Substitute in Left Carpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWP04Z	Revision of Internal Fixation Device in Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PWP05Z	Revision of External Fixation Device in Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PWP07Z	Revision of Autologous Tissue Substitute in Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PWP0JZ	Revision of Synthetic Substitute in Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PWP0KZ	Revision of Nonautologous Tissue Substitute in Right Metacarpal, Open Approach	PX	ICD-10-PCS
0PWP34Z	Revision of Internal Fixation Device in Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PWP35Z	Revision of External Fixation Device in Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PWP37Z	Revision of Autologous Tissue Substitute in Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PWP3JZ	Revision of Synthetic Substitute in Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PWP3KZ	Revision of Nonautologous Tissue Substitute in Right Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PWP44Z	Revision of Internal Fixation Device in Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWP45Z	Revision of External Fixation Device in Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWP47Z	Revision of Autologous Tissue Substitute in Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWP4JZ	Revision of Synthetic Substitute in Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWP4KZ	Revision of Nonautologous Tissue Substitute in Right Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWQ04Z	Revision of Internal Fixation Device in Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PWQ05Z	Revision of External Fixation Device in Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PWQ07Z	Revision of Autologous Tissue Substitute in Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PWQ0JZ	Revision of Synthetic Substitute in Left Metacarpal, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PWQ0KZ	Revision of Nonautologous Tissue Substitute in Left Metacarpal, Open Approach	PX	ICD-10-PCS
0PWQ34Z	Revision of Internal Fixation Device in Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PWQ35Z	Revision of External Fixation Device in Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PWQ37Z	Revision of Autologous Tissue Substitute in Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PWQ3JZ	Revision of Synthetic Substitute in Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PWQ3KZ	Revision of Nonautologous Tissue Substitute in Left Metacarpal, Percutaneous Approach	PX	ICD-10-PCS
0PWQ44Z	Revision of Internal Fixation Device in Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWQ45Z	Revision of External Fixation Device in Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWQ47Z	Revision of Autologous Tissue Substitute in Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWQ4JZ	Revision of Synthetic Substitute in Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWQ4KZ	Revision of Nonautologous Tissue Substitute in Left Metacarpal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWR04Z	Revision of Internal Fixation Device in Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PWR05Z	Revision of External Fixation Device in Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PWR07Z	Revision of Autologous Tissue Substitute in Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PWR0JZ	Revision of Synthetic Substitute in Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PWR0KZ	Revision of Nonautologous Tissue Substitute in Right Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PWR34Z	Revision of Internal Fixation Device in Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWR35Z	Revision of External Fixation Device in Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWR37Z	Revision of Autologous Tissue Substitute in Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWR3JZ	Revision of Synthetic Substitute in Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWR3KZ	Revision of Nonautologous Tissue Substitute in Right Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWR44Z	Revision of Internal Fixation Device in Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWR45Z	Revision of External Fixation Device in Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWR47Z	Revision of Autologous Tissue Substitute in Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWR4JZ	Revision of Synthetic Substitute in Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PWR4KZ	Revision of Nonautologous Tissue Substitute in Right Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWS04Z	Revision of Internal Fixation Device in Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PWS05Z	Revision of External Fixation Device in Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PWS07Z	Revision of Autologous Tissue Substitute in Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PWS0JZ	Revision of Synthetic Substitute in Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PWS0KZ	Revision of Nonautologous Tissue Substitute in Left Thumb Phalanx, Open Approach	PX	ICD-10-PCS
0PWS34Z	Revision of Internal Fixation Device in Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWS35Z	Revision of External Fixation Device in Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWS37Z	Revision of Autologous Tissue Substitute in Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWS3JZ	Revision of Synthetic Substitute in Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWS3KZ	Revision of Nonautologous Tissue Substitute in Left Thumb Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWS44Z	Revision of Internal Fixation Device in Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWS45Z	Revision of External Fixation Device in Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWS47Z	Revision of Autologous Tissue Substitute in Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWS4JZ	Revision of Synthetic Substitute in Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWS4KZ	Revision of Nonautologous Tissue Substitute in Left Thumb Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWT04Z	Revision of Internal Fixation Device in Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PWT05Z	Revision of External Fixation Device in Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PWT07Z	Revision of Autologous Tissue Substitute in Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PWT0JZ	Revision of Synthetic Substitute in Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PWT0KZ	Revision of Nonautologous Tissue Substitute in Right Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PWT34Z	Revision of Internal Fixation Device in Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWT35Z	Revision of External Fixation Device in Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWT37Z	Revision of Autologous Tissue Substitute in Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWT3JZ	Revision of Synthetic Substitute in Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWT3KZ	Revision of Nonautologous Tissue Substitute in Right Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0PWT44Z	Revision of Internal Fixation Device in Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWT45Z	Revision of External Fixation Device in Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWT47Z	Revision of Autologous Tissue Substitute in Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWT4JZ	Revision of Synthetic Substitute in Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWT4KZ	Revision of Nonautologous Tissue Substitute in Right Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWV04Z	Revision of Internal Fixation Device in Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PWV05Z	Revision of External Fixation Device in Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PWV07Z	Revision of Autologous Tissue Substitute in Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PWV0JZ	Revision of Synthetic Substitute in Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PWV0KZ	Revision of Nonautologous Tissue Substitute in Left Finger Phalanx, Open Approach	PX	ICD-10-PCS
0PWV34Z	Revision of Internal Fixation Device in Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWV35Z	Revision of External Fixation Device in Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWV37Z	Revision of Autologous Tissue Substitute in Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWV3JZ	Revision of Synthetic Substitute in Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWV3KZ	Revision of Nonautologous Tissue Substitute in Left Finger Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0PWV44Z	Revision of Internal Fixation Device in Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWV45Z	Revision of External Fixation Device in Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWV47Z	Revision of Autologous Tissue Substitute in Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWV4JZ	Revision of Synthetic Substitute in Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWV4KZ	Revision of Nonautologous Tissue Substitute in Left Finger Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWY00Z	Revision of Drainage Device in Upper Bone, Open Approach	PX	ICD-10-PCS
0PWY0MZ	Revision of Bone Growth Stimulator in Upper Bone, Open Approach	PX	ICD-10-PCS
0PWY30Z	Revision of Drainage Device in Upper Bone, Percutaneous Approach	PX	ICD-10-PCS
0PWY3MZ	Revision of Bone Growth Stimulator in Upper Bone, Percutaneous Approach	PX	ICD-10-PCS
0PWY40Z	Revision of Drainage Device in Upper Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0PWY4MZ	Revision of Bone Growth Stimulator in Upper Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q500Z3	Destruction of Lumbar Vertebra using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0Q500ZZ	Destruction of Lumbar Vertebra, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Q503Z3	Destruction of Lumbar Vertebra using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0Q503ZZ	Destruction of Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0Q504Z3	Destruction of Lumbar Vertebra using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q504ZZ	Destruction of Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q510Z3	Destruction of Sacrum using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0Q510ZZ	Destruction of Sacrum, Open Approach	PX	ICD-10-PCS
0Q513Z3	Destruction of Sacrum using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0Q513ZZ	Destruction of Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0Q514Z3	Destruction of Sacrum using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q514ZZ	Destruction of Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q520ZZ	Destruction of Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0Q523ZZ	Destruction of Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0Q524ZZ	Destruction of Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q530ZZ	Destruction of Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0Q533ZZ	Destruction of Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0Q534ZZ	Destruction of Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q540ZZ	Destruction of Right Acetabulum, Open Approach	PX	ICD-10-PCS
0Q543ZZ	Destruction of Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0Q544ZZ	Destruction of Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q550ZZ	Destruction of Left Acetabulum, Open Approach	PX	ICD-10-PCS
0Q553ZZ	Destruction of Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0Q554ZZ	Destruction of Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q560ZZ	Destruction of Right Upper Femur, Open Approach	PX	ICD-10-PCS
0Q563ZZ	Destruction of Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0Q564ZZ	Destruction of Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q570ZZ	Destruction of Left Upper Femur, Open Approach	PX	ICD-10-PCS
0Q573ZZ	Destruction of Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0Q574ZZ	Destruction of Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q580ZZ	Destruction of Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0Q583ZZ	Destruction of Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0Q584ZZ	Destruction of Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q590ZZ	Destruction of Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0Q593ZZ	Destruction of Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0Q594ZZ	Destruction of Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5B0ZZ	Destruction of Right Lower Femur, Open Approach	PX	ICD-10-PCS
0Q5B3ZZ	Destruction of Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0Q5B4ZZ	Destruction of Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5C0ZZ	Destruction of Left Lower Femur, Open Approach	PX	ICD-10-PCS
0Q5C3ZZ	Destruction of Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0Q5C4ZZ	Destruction of Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5D0ZZ	Destruction of Right Patella, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Q5D3ZZ	Destruction of Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0Q5D4ZZ	Destruction of Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5F0ZZ	Destruction of Left Patella, Open Approach	PX	ICD-10-PCS
0Q5F3ZZ	Destruction of Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0Q5F4ZZ	Destruction of Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5G0ZZ	Destruction of Right Tibia, Open Approach	PX	ICD-10-PCS
0Q5G3ZZ	Destruction of Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0Q5G4ZZ	Destruction of Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5H0ZZ	Destruction of Left Tibia, Open Approach	PX	ICD-10-PCS
0Q5H3ZZ	Destruction of Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0Q5H4ZZ	Destruction of Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5J0ZZ	Destruction of Right Fibula, Open Approach	PX	ICD-10-PCS
0Q5J3ZZ	Destruction of Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0Q5J4ZZ	Destruction of Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5K0ZZ	Destruction of Left Fibula, Open Approach	PX	ICD-10-PCS
0Q5K3ZZ	Destruction of Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0Q5K4ZZ	Destruction of Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5L0ZZ	Destruction of Right Tarsal, Open Approach	PX	ICD-10-PCS
0Q5L3ZZ	Destruction of Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0Q5L4ZZ	Destruction of Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5M0ZZ	Destruction of Left Tarsal, Open Approach	PX	ICD-10-PCS
0Q5M3ZZ	Destruction of Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0Q5M4ZZ	Destruction of Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5N0ZZ	Destruction of Right Metatarsal, Open Approach	PX	ICD-10-PCS
0Q5N3ZZ	Destruction of Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0Q5N4ZZ	Destruction of Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5P0ZZ	Destruction of Left Metatarsal, Open Approach	PX	ICD-10-PCS
0Q5P3ZZ	Destruction of Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0Q5P4ZZ	Destruction of Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5Q0ZZ	Destruction of Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0Q5Q3ZZ	Destruction of Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0Q5Q4ZZ	Destruction of Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5R0ZZ	Destruction of Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0Q5R3ZZ	Destruction of Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0Q5R4ZZ	Destruction of Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q5S0ZZ	Destruction of Coccyx, Open Approach	PX	ICD-10-PCS
0Q5S3ZZ	Destruction of Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0Q5S4ZZ	Destruction of Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q800ZZ	Division of Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0Q803ZZ	Division of Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0Q804ZZ	Division of Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q810ZZ	Division of Sacrum, Open Approach	PX	ICD-10-PCS
0Q813ZZ	Division of Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0Q814ZZ	Division of Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q820ZZ	Division of Right Pelvic Bone, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Q823ZZ	Division of Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0Q824ZZ	Division of Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q830ZZ	Division of Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0Q833ZZ	Division of Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0Q834ZZ	Division of Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q840ZZ	Division of Right Acetabulum, Open Approach	PX	ICD-10-PCS
0Q843ZZ	Division of Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0Q844ZZ	Division of Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q850ZZ	Division of Left Acetabulum, Open Approach	PX	ICD-10-PCS
0Q853ZZ	Division of Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0Q854ZZ	Division of Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q860ZZ	Division of Right Upper Femur, Open Approach	PX	ICD-10-PCS
0Q863ZZ	Division of Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0Q864ZZ	Division of Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q870ZZ	Division of Left Upper Femur, Open Approach	PX	ICD-10-PCS
0Q873ZZ	Division of Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0Q874ZZ	Division of Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q880ZZ	Division of Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0Q883ZZ	Division of Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0Q884ZZ	Division of Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q890ZZ	Division of Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0Q893ZZ	Division of Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0Q894ZZ	Division of Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8B0ZZ	Division of Right Lower Femur, Open Approach	PX	ICD-10-PCS
0Q8B3ZZ	Division of Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0Q8B4ZZ	Division of Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8C0ZZ	Division of Left Lower Femur, Open Approach	PX	ICD-10-PCS
0Q8C3ZZ	Division of Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0Q8C4ZZ	Division of Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8D0ZZ	Division of Right Patella, Open Approach	PX	ICD-10-PCS
0Q8D3ZZ	Division of Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0Q8D4ZZ	Division of Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8F0ZZ	Division of Left Patella, Open Approach	PX	ICD-10-PCS
0Q8F3ZZ	Division of Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0Q8F4ZZ	Division of Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8G0ZZ	Division of Right Tibia, Open Approach	PX	ICD-10-PCS
0Q8G3ZZ	Division of Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0Q8G4ZZ	Division of Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8H0ZZ	Division of Left Tibia, Open Approach	PX	ICD-10-PCS
0Q8H3ZZ	Division of Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0Q8H4ZZ	Division of Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8J0ZZ	Division of Right Fibula, Open Approach	PX	ICD-10-PCS
0Q8J3ZZ	Division of Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0Q8J4ZZ	Division of Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8K0ZZ	Division of Left Fibula, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Q8K3ZZ	Division of Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0Q8K4ZZ	Division of Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8L0ZZ	Division of Right Tarsal, Open Approach	PX	ICD-10-PCS
0Q8L3ZZ	Division of Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0Q8L4ZZ	Division of Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8M0ZZ	Division of Left Tarsal, Open Approach	PX	ICD-10-PCS
0Q8M3ZZ	Division of Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0Q8M4ZZ	Division of Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8N0ZZ	Division of Right Metatarsal, Open Approach	PX	ICD-10-PCS
0Q8N3ZZ	Division of Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0Q8N4ZZ	Division of Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8P0ZZ	Division of Left Metatarsal, Open Approach	PX	ICD-10-PCS
0Q8P3ZZ	Division of Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0Q8P4ZZ	Division of Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8Q0ZZ	Division of Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0Q8Q3ZZ	Division of Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0Q8Q4ZZ	Division of Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8R0ZZ	Division of Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0Q8R3ZZ	Division of Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0Q8R4ZZ	Division of Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q8S0ZZ	Division of Coccyx, Open Approach	PX	ICD-10-PCS
0Q8S3ZZ	Division of Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0Q8S4ZZ	Division of Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9000Z	Drainage of Lumbar Vertebra with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q900ZZ	Drainage of Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0Q9040Z	Drainage of Lumbar Vertebra with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q904ZZ	Drainage of Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9100Z	Drainage of Sacrum with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q910ZZ	Drainage of Sacrum, Open Approach	PX	ICD-10-PCS
0Q9140Z	Drainage of Sacrum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q914ZZ	Drainage of Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9200Z	Drainage of Right Pelvic Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q920ZZ	Drainage of Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0Q9240Z	Drainage of Right Pelvic Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q924ZZ	Drainage of Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9300Z	Drainage of Left Pelvic Bone with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q930ZZ	Drainage of Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0Q9340Z	Drainage of Left Pelvic Bone with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q934ZZ	Drainage of Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9400Z	Drainage of Right Acetabulum with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q940ZZ	Drainage of Right Acetabulum, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Q9440Z	Drainage of Right Acetabulum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q944ZZ	Drainage of Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9500Z	Drainage of Left Acetabulum with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q950ZZ	Drainage of Left Acetabulum, Open Approach	PX	ICD-10-PCS
0Q9540Z	Drainage of Left Acetabulum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q954ZZ	Drainage of Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9600Z	Drainage of Right Upper Femur with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q960ZZ	Drainage of Right Upper Femur, Open Approach	PX	ICD-10-PCS
0Q9640Z	Drainage of Right Upper Femur with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q964ZZ	Drainage of Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9700Z	Drainage of Left Upper Femur with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q970ZZ	Drainage of Left Upper Femur, Open Approach	PX	ICD-10-PCS
0Q9740Z	Drainage of Left Upper Femur with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q974ZZ	Drainage of Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9800Z	Drainage of Right Femoral Shaft with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q980ZZ	Drainage of Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0Q9840Z	Drainage of Right Femoral Shaft with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q984ZZ	Drainage of Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9900Z	Drainage of Left Femoral Shaft with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q990ZZ	Drainage of Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0Q9940Z	Drainage of Left Femoral Shaft with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q994ZZ	Drainage of Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9B00Z	Drainage of Right Lower Femur with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9B0ZZ	Drainage of Right Lower Femur, Open Approach	PX	ICD-10-PCS
0Q9B40Z	Drainage of Right Lower Femur with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9B4ZZ	Drainage of Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9C00Z	Drainage of Left Lower Femur with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9C0ZZ	Drainage of Left Lower Femur, Open Approach	PX	ICD-10-PCS
0Q9C40Z	Drainage of Left Lower Femur with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9C4ZZ	Drainage of Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9D00Z	Drainage of Right Patella with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9D0ZZ	Drainage of Right Patella, Open Approach	PX	ICD-10-PCS
0Q9D40Z	Drainage of Right Patella with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9D4ZZ	Drainage of Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9F00Z	Drainage of Left Patella with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9F0ZZ	Drainage of Left Patella, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Q9F40Z	Drainage of Left Patella with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9F4ZZ	Drainage of Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9G00Z	Drainage of Right Tibia with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9G0ZZ	Drainage of Right Tibia, Open Approach	PX	ICD-10-PCS
0Q9G40Z	Drainage of Right Tibia with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9G4ZZ	Drainage of Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9H00Z	Drainage of Left Tibia with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9H0ZZ	Drainage of Left Tibia, Open Approach	PX	ICD-10-PCS
0Q9H40Z	Drainage of Left Tibia with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9H4ZZ	Drainage of Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9J00Z	Drainage of Right Fibula with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9J0ZZ	Drainage of Right Fibula, Open Approach	PX	ICD-10-PCS
0Q9J40Z	Drainage of Right Fibula with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9J4ZZ	Drainage of Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9K00Z	Drainage of Left Fibula with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9K0ZZ	Drainage of Left Fibula, Open Approach	PX	ICD-10-PCS
0Q9K40Z	Drainage of Left Fibula with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9K4ZZ	Drainage of Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9L00Z	Drainage of Right Tarsal with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9L0ZZ	Drainage of Right Tarsal, Open Approach	PX	ICD-10-PCS
0Q9L40Z	Drainage of Right Tarsal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9L4ZZ	Drainage of Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9M00Z	Drainage of Left Tarsal with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9M0ZZ	Drainage of Left Tarsal, Open Approach	PX	ICD-10-PCS
0Q9M40Z	Drainage of Left Tarsal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9M4ZZ	Drainage of Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9N00Z	Drainage of Right Metatarsal with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9N0ZZ	Drainage of Right Metatarsal, Open Approach	PX	ICD-10-PCS
0Q9N40Z	Drainage of Right Metatarsal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9N4ZZ	Drainage of Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9P00Z	Drainage of Left Metatarsal with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9P0ZZ	Drainage of Left Metatarsal, Open Approach	PX	ICD-10-PCS
0Q9P40Z	Drainage of Left Metatarsal with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9P4ZZ	Drainage of Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9Q00Z	Drainage of Right Toe Phalanx with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9Q0ZZ	Drainage of Right Toe Phalanx, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Q9Q40Z	Drainage of Right Toe Phalanx with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9Q4ZZ	Drainage of Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9R00Z	Drainage of Left Toe Phalanx with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9R0ZZ	Drainage of Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0Q9R40Z	Drainage of Left Toe Phalanx with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9R4ZZ	Drainage of Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9S00Z	Drainage of Coccyx with Drainage Device, Open Approach	PX	ICD-10-PCS
0Q9S0ZZ	Drainage of Coccyx, Open Approach	PX	ICD-10-PCS
0Q9S40Z	Drainage of Coccyx with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Q9S4ZZ	Drainage of Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QB00ZZ	Excision of Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QB03ZZ	Excision of Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QB04ZZ	Excision of Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QB10ZZ	Excision of Sacrum, Open Approach	PX	ICD-10-PCS
0QB13ZZ	Excision of Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QB14ZZ	Excision of Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QB20ZZ	Excision of Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QB23ZZ	Excision of Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QB24ZZ	Excision of Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QB30ZZ	Excision of Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QB33ZZ	Excision of Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QB34ZZ	Excision of Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QB40ZZ	Excision of Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QB43ZZ	Excision of Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QB44ZZ	Excision of Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QB50ZZ	Excision of Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QB53ZZ	Excision of Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QB54ZZ	Excision of Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QB60ZZ	Excision of Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QB63ZZ	Excision of Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QB64ZZ	Excision of Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QB70ZZ	Excision of Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QB73ZZ	Excision of Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QB74ZZ	Excision of Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QB80ZZ	Excision of Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QB83ZZ	Excision of Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QB84ZZ	Excision of Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QB90ZZ	Excision of Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QB93ZZ	Excision of Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QB94ZZ	Excision of Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBB0ZZ	Excision of Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QBB3ZZ	Excision of Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QBB4ZZ	Excision of Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QBC0ZZ	Excision of Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QBC3ZZ	Excision of Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QBC4ZZ	Excision of Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBD0ZZ	Excision of Right Patella, Open Approach	PX	ICD-10-PCS
0QBD3ZZ	Excision of Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QBD4ZZ	Excision of Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBF0ZZ	Excision of Left Patella, Open Approach	PX	ICD-10-PCS
0QBF3ZZ	Excision of Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QBF4ZZ	Excision of Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBG0ZZ	Excision of Right Tibia, Open Approach	PX	ICD-10-PCS
0QBG3ZZ	Excision of Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QBG4ZZ	Excision of Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBH0ZZ	Excision of Left Tibia, Open Approach	PX	ICD-10-PCS
0QBH3ZZ	Excision of Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QBH4ZZ	Excision of Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBJ0ZZ	Excision of Right Fibula, Open Approach	PX	ICD-10-PCS
0QBJ3ZZ	Excision of Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QBJ4ZZ	Excision of Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBK0ZZ	Excision of Left Fibula, Open Approach	PX	ICD-10-PCS
0QBK3ZZ	Excision of Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QBK4ZZ	Excision of Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBL0ZZ	Excision of Right Tarsal, Open Approach	PX	ICD-10-PCS
0QBL3ZZ	Excision of Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QBL4ZZ	Excision of Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBM0ZZ	Excision of Left Tarsal, Open Approach	PX	ICD-10-PCS
0QBM3ZZ	Excision of Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QBM4ZZ	Excision of Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBN0Z2	Excision of Right Metatarsal, Sesamoid Bone(s) 1st Toe, Open Approach	PX	ICD-10-PCS
0QBN0ZZ	Excision of Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QBN3Z2	Excision of Right Metatarsal, Sesamoid Bone(s) 1st Toe, Percutaneous Approach	PX	ICD-10-PCS
0QBN3ZZ	Excision of Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QBN4Z2	Excision of Right Metatarsal, Sesamoid Bone(s) 1st Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBN4ZZ	Excision of Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBP0Z2	Excision of Left Metatarsal, Sesamoid Bone(s) 1st Toe, Open Approach	PX	ICD-10-PCS
0QBP0ZZ	Excision of Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QBP3Z2	Excision of Left Metatarsal, Sesamoid Bone(s) 1st Toe, Percutaneous Approach	PX	ICD-10-PCS
0QBP3ZZ	Excision of Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QBP4Z2	Excision of Left Metatarsal, Sesamoid Bone(s) 1st Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBP4ZZ	Excision of Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBQ0ZZ	Excision of Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QBQ3ZZ	Excision of Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QBQ4ZZ	Excision of Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBR0ZZ	Excision of Left Toe Phalanx, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QBR3ZZ	Excision of Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QBR4ZZ	Excision of Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QBS0ZZ	Excision of Coccyx, Open Approach	PX	ICD-10-PCS
0QBS3ZZ	Excision of Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QBS4ZZ	Excision of Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QC00ZZ	Extirpation of Matter from Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QC03ZZ	Extirpation of Matter from Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QC04ZZ	Extirpation of Matter from Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QC10ZZ	Extirpation of Matter from Sacrum, Open Approach	PX	ICD-10-PCS
0QC13ZZ	Extirpation of Matter from Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QC14ZZ	Extirpation of Matter from Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QC20ZZ	Extirpation of Matter from Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QC23ZZ	Extirpation of Matter from Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QC24ZZ	Extirpation of Matter from Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QC30ZZ	Extirpation of Matter from Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QC33ZZ	Extirpation of Matter from Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QC34ZZ	Extirpation of Matter from Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QC40ZZ	Extirpation of Matter from Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QC43ZZ	Extirpation of Matter from Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QC44ZZ	Extirpation of Matter from Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QC50ZZ	Extirpation of Matter from Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QC53ZZ	Extirpation of Matter from Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QC54ZZ	Extirpation of Matter from Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QC60ZZ	Extirpation of Matter from Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QC63ZZ	Extirpation of Matter from Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QC64ZZ	Extirpation of Matter from Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QC70ZZ	Extirpation of Matter from Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QC73ZZ	Extirpation of Matter from Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QC74ZZ	Extirpation of Matter from Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QC80ZZ	Extirpation of Matter from Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QC83ZZ	Extirpation of Matter from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QC84ZZ	Extirpation of Matter from Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QC90ZZ	Extirpation of Matter from Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QC93ZZ	Extirpation of Matter from Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QC94ZZ	Extirpation of Matter from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCB0ZZ	Extirpation of Matter from Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QCB3ZZ	Extirpation of Matter from Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QCB4ZZ	Extirpation of Matter from Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCC0ZZ	Extirpation of Matter from Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QCC3ZZ	Extirpation of Matter from Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QCC4ZZ	Extirpation of Matter from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCD0ZZ	Extirpation of Matter from Right Patella, Open Approach	PX	ICD-10-PCS
0QCD3ZZ	Extirpation of Matter from Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QCD4ZZ	Extirpation of Matter from Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCF0ZZ	Extirpation of Matter from Left Patella, Open Approach	PX	ICD-10-PCS
0QCF3ZZ	Extirpation of Matter from Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QCF4ZZ	Extirpation of Matter from Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCG0ZZ	Extirpation of Matter from Right Tibia, Open Approach	PX	ICD-10-PCS
0QCG3ZZ	Extirpation of Matter from Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QCG4ZZ	Extirpation of Matter from Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCH0ZZ	Extirpation of Matter from Left Tibia, Open Approach	PX	ICD-10-PCS
0QCH3ZZ	Extirpation of Matter from Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QCH4ZZ	Extirpation of Matter from Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCJ0ZZ	Extirpation of Matter from Right Fibula, Open Approach	PX	ICD-10-PCS
0QCJ3ZZ	Extirpation of Matter from Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QCJ4ZZ	Extirpation of Matter from Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCK0ZZ	Extirpation of Matter from Left Fibula, Open Approach	PX	ICD-10-PCS
0QCK3ZZ	Extirpation of Matter from Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QCK4ZZ	Extirpation of Matter from Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCL0ZZ	Extirpation of Matter from Right Tarsal, Open Approach	PX	ICD-10-PCS
0QCL3ZZ	Extirpation of Matter from Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QCL4ZZ	Extirpation of Matter from Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCM0ZZ	Extirpation of Matter from Left Tarsal, Open Approach	PX	ICD-10-PCS
0QCM3ZZ	Extirpation of Matter from Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QCM4ZZ	Extirpation of Matter from Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCN0ZZ	Extirpation of Matter from Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QCN3ZZ	Extirpation of Matter from Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QCN4ZZ	Extirpation of Matter from Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCP0ZZ	Extirpation of Matter from Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QCP3ZZ	Extirpation of Matter from Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QCP4ZZ	Extirpation of Matter from Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCQ0ZZ	Extirpation of Matter from Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QCQ3ZZ	Extirpation of Matter from Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QCQ4ZZ	Extirpation of Matter from Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QCR0ZZ	Extirpation of Matter from Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QCR3ZZ	Extirpation of Matter from Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QCR4ZZ	Extirpation of Matter from Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QCS0ZZ	Extirpation of Matter from Coccyx, Open Approach	PX	ICD-10-PCS
0QCS3ZZ	Extirpation of Matter from Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QCS4ZZ	Extirpation of Matter from Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QD00ZZ	Extraction of Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QD10ZZ	Extraction of Sacrum, Open Approach	PX	ICD-10-PCS
0QD20ZZ	Extraction of Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QD30ZZ	Extraction of Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QD40ZZ	Extraction of Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QD50ZZ	Extraction of Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QD60ZZ	Extraction of Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QD70ZZ	Extraction of Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QD80ZZ	Extraction of Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QD90ZZ	Extraction of Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QDB0ZZ	Extraction of Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QDC0ZZ	Extraction of Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QDD0ZZ	Extraction of Right Patella, Open Approach	PX	ICD-10-PCS
0QDF0ZZ	Extraction of Left Patella, Open Approach	PX	ICD-10-PCS
0QDG0ZZ	Extraction of Right Tibia, Open Approach	PX	ICD-10-PCS
0QDH0ZZ	Extraction of Left Tibia, Open Approach	PX	ICD-10-PCS
0QDJ0ZZ	Extraction of Right Fibula, Open Approach	PX	ICD-10-PCS
0QDK0ZZ	Extraction of Left Fibula, Open Approach	PX	ICD-10-PCS
0QDL0ZZ	Extraction of Right Tarsal, Open Approach	PX	ICD-10-PCS
0QDM0ZZ	Extraction of Left Tarsal, Open Approach	PX	ICD-10-PCS
0QDN0ZZ	Extraction of Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QDP0ZZ	Extraction of Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QDQ0ZZ	Extraction of Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QDR0ZZ	Extraction of Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QDS0ZZ	Extraction of Coccyx, Open Approach	PX	ICD-10-PCS
0QH004Z	Insertion of Internal Fixation Device into Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QH005Z	Insertion of External Fixation Device into Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QH034Z	Insertion of Internal Fixation Device into Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QH035Z	Insertion of External Fixation Device into Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QH044Z	Insertion of Internal Fixation Device into Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH045Z	Insertion of External Fixation Device into Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH104Z	Insertion of Internal Fixation Device into Sacrum, Open Approach	PX	ICD-10-PCS
0QH105Z	Insertion of External Fixation Device into Sacrum, Open Approach	PX	ICD-10-PCS
0QH134Z	Insertion of Internal Fixation Device into Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QH135Z	Insertion of External Fixation Device into Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QH144Z	Insertion of Internal Fixation Device into Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QH145Z	Insertion of External Fixation Device into Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH204Z	Insertion of Internal Fixation Device into Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QH205Z	Insertion of External Fixation Device into Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QH234Z	Insertion of Internal Fixation Device into Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QH235Z	Insertion of External Fixation Device into Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QH244Z	Insertion of Internal Fixation Device into Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH245Z	Insertion of External Fixation Device into Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH304Z	Insertion of Internal Fixation Device into Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QH305Z	Insertion of External Fixation Device into Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QH334Z	Insertion of Internal Fixation Device into Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QH335Z	Insertion of External Fixation Device into Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QH344Z	Insertion of Internal Fixation Device into Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH345Z	Insertion of External Fixation Device into Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH404Z	Insertion of Internal Fixation Device into Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QH405Z	Insertion of External Fixation Device into Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QH434Z	Insertion of Internal Fixation Device into Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QH435Z	Insertion of External Fixation Device into Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QH444Z	Insertion of Internal Fixation Device into Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH445Z	Insertion of External Fixation Device into Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH504Z	Insertion of Internal Fixation Device into Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QH505Z	Insertion of External Fixation Device into Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QH534Z	Insertion of Internal Fixation Device into Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QH535Z	Insertion of External Fixation Device into Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QH544Z	Insertion of Internal Fixation Device into Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH545Z	Insertion of External Fixation Device into Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH604Z	Insertion of Internal Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QH605Z	Insertion of External Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QH606Z	Insertion of Intramedullary Internal Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QH608Z	Insertion of Limb Lengthening External Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QH60BZ	Insertion of Monoplanar External Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QH60CZ	Insertion of Ring External Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QH60DZ	Insertion of Hybrid External Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QH634Z	Insertion of Internal Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH635Z	Insertion of External Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH636Z	Insertion of Intramedullary Internal Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH63BZ	Insertion of Monoplanar External Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH63CZ	Insertion of Ring External Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH63DZ	Insertion of Hybrid External Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH644Z	Insertion of Internal Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH645Z	Insertion of External Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH646Z	Insertion of Intramedullary Internal Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH648Z	Insertion of Limb Lengthening External Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH64BZ	Insertion of Monoplanar External Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH64CZ	Insertion of Ring External Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH64DZ	Insertion of Hybrid External Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH704Z	Insertion of Internal Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QH705Z	Insertion of External Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QH706Z	Insertion of Intramedullary Internal Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QH708Z	Insertion of Limb Lengthening External Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QH70BZ	Insertion of Monoplanar External Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QH70CZ	Insertion of Ring External Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QH70DZ	Insertion of Hybrid External Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QH734Z	Insertion of Internal Fixation Device into Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH735Z	Insertion of External Fixation Device into Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH736Z	Insertion of Intramedullary Internal Fixation Device into Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH73BZ	Insertion of Monoplanar External Fixation Device into Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH73CZ	Insertion of Ring External Fixation Device into Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH73DZ	Insertion of Hybrid External Fixation Device into Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QH744Z	Insertion of Internal Fixation Device into Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH745Z	Insertion of External Fixation Device into Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH746Z	Insertion of Intramedullary Internal Fixation Device into Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH748Z	Insertion of Limb Lengthening External Fixation Device into Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH74BZ	Insertion of Monoplanar External Fixation Device into Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH74CZ	Insertion of Ring External Fixation Device into Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH74DZ	Insertion of Hybrid External Fixation Device into Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH804Z	Insertion of Internal Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH805Z	Insertion of External Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH806Z	Insertion of Intramedullary Internal Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH807Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH808Z	Insertion of Limb Lengthening External Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH80BZ	Insertion of Monoplanar External Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH80CZ	Insertion of Ring External Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH80DZ	Insertion of Hybrid External Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QH834Z	Insertion of Internal Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH835Z	Insertion of External Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH836Z	Insertion of Intramedullary Internal Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH837Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH83BZ	Insertion of Monoplanar External Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH83CZ	Insertion of Ring External Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH83DZ	Insertion of Hybrid External Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH844Z	Insertion of Internal Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH845Z	Insertion of External Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH846Z	Insertion of Intramedullary Internal Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH847Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH848Z	Insertion of Limb Lengthening External Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH84BZ	Insertion of Monoplanar External Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH84CZ	Insertion of Ring External Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH84DZ	Insertion of Hybrid External Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH904Z	Insertion of Internal Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH905Z	Insertion of External Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH906Z	Insertion of Intramedullary Internal Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH907Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH908Z	Insertion of Limb Lengthening External Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH90BZ	Insertion of Monoplanar External Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH90CZ	Insertion of Ring External Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QH90DZ	Insertion of Hybrid External Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QH934Z	Insertion of Internal Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH935Z	Insertion of External Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH936Z	Insertion of Intramedullary Internal Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH937Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH93BZ	Insertion of Monoplanar External Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH93CZ	Insertion of Ring External Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH93DZ	Insertion of Hybrid External Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QH944Z	Insertion of Internal Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH945Z	Insertion of External Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH946Z	Insertion of Intramedullary Internal Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH947Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH948Z	Insertion of Limb Lengthening External Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH94BZ	Insertion of Monoplanar External Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH94CZ	Insertion of Ring External Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QH94DZ	Insertion of Hybrid External Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHB04Z	Insertion of Internal Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QHB05Z	Insertion of External Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QHB06Z	Insertion of Intramedullary Internal Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QHB08Z	Insertion of Limb Lengthening External Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QHB0BZ	Insertion of Monoplanar External Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QHB0CZ	Insertion of Ring External Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QHB0DZ	Insertion of Hybrid External Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QHB34Z	Insertion of Internal Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QHB35Z	Insertion of External Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QHB36Z	Insertion of Intramedullary Internal Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QHB3BZ	Insertion of Monoplanar External Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QHB3CZ	Insertion of Ring External Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QHB3DZ	Insertion of Hybrid External Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QHB44Z	Insertion of Internal Fixation Device into Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHB45Z	Insertion of External Fixation Device into Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHB46Z	Insertion of Intramedullary Internal Fixation Device into Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHB48Z	Insertion of Limb Lengthening External Fixation Device into Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHB4BZ	Insertion of Monoplanar External Fixation Device into Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHB4CZ	Insertion of Ring External Fixation Device into Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHB4DZ	Insertion of Hybrid External Fixation Device into Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHC04Z	Insertion of Internal Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QHC05Z	Insertion of External Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QHC06Z	Insertion of Intramedullary Internal Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QHC08Z	Insertion of Limb Lengthening External Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QHC0BZ	Insertion of Monoplanar External Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QHC0CZ	Insertion of Ring External Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QHC0DZ	Insertion of Hybrid External Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QHC34Z	Insertion of Internal Fixation Device into Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QHC35Z	Insertion of External Fixation Device into Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QHC36Z	Insertion of Intramedullary Internal Fixation Device into Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QHC3BZ	Insertion of Monoplanar External Fixation Device into Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QHC3CZ	Insertion of Ring External Fixation Device into Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QHC3DZ	Insertion of Hybrid External Fixation Device into Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QHC44Z	Insertion of Internal Fixation Device into Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHC45Z	Insertion of External Fixation Device into Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHC46Z	Insertion of Intramedullary Internal Fixation Device into Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHC48Z	Insertion of Limb Lengthening External Fixation Device into Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHC4BZ	Insertion of Monoplanar External Fixation Device into Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHC4CZ	Insertion of Ring External Fixation Device into Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHC4DZ	Insertion of Hybrid External Fixation Device into Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHD04Z	Insertion of Internal Fixation Device into Right Patella, Open Approach	PX	ICD-10-PCS
0QHD05Z	Insertion of External Fixation Device into Right Patella, Open Approach	PX	ICD-10-PCS
0QHD34Z	Insertion of Internal Fixation Device into Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QHD35Z	Insertion of External Fixation Device into Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QHD44Z	Insertion of Internal Fixation Device into Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHD45Z	Insertion of External Fixation Device into Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHF04Z	Insertion of Internal Fixation Device into Left Patella, Open Approach	PX	ICD-10-PCS
0QHF05Z	Insertion of External Fixation Device into Left Patella, Open Approach	PX	ICD-10-PCS
0QHF34Z	Insertion of Internal Fixation Device into Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QHF35Z	Insertion of External Fixation Device into Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QHF44Z	Insertion of Internal Fixation Device into Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHF45Z	Insertion of External Fixation Device into Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHG04Z	Insertion of Internal Fixation Device into Right Tibia, Open Approach	PX	ICD-10-PCS
0QHG05Z	Insertion of External Fixation Device into Right Tibia, Open Approach	PX	ICD-10-PCS
0QHG06Z	Insertion of Intramedullary Internal Fixation Device into Right Tibia, Open Approach	PX	ICD-10-PCS
0QHG07Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Right Tibia, Open Approach	PX	ICD-10-PCS
0QHG08Z	Insertion of Limb Lengthening External Fixation Device into Right Tibia, Open Approach	PX	ICD-10-PCS
0QHG0BZ	Insertion of Monoplanar External Fixation Device into Right Tibia, Open Approach	PX	ICD-10-PCS
0QHG0CZ	Insertion of Ring External Fixation Device into Right Tibia, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QHG0DZ	Insertion of Hybrid External Fixation Device into Right Tibia, Open Approach	PX	ICD-10-PCS
0QHG34Z	Insertion of Internal Fixation Device into Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHG35Z	Insertion of External Fixation Device into Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHG36Z	Insertion of Intramedullary Internal Fixation Device into Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHG37Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHG3BZ	Insertion of Monoplanar External Fixation Device into Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHG3CZ	Insertion of Ring External Fixation Device into Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHG3DZ	Insertion of Hybrid External Fixation Device into Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHG44Z	Insertion of Internal Fixation Device into Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHG45Z	Insertion of External Fixation Device into Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHG46Z	Insertion of Intramedullary Internal Fixation Device into Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHG47Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHG48Z	Insertion of Limb Lengthening External Fixation Device into Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHG4BZ	Insertion of Monoplanar External Fixation Device into Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHG4CZ	Insertion of Ring External Fixation Device into Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHG4DZ	Insertion of Hybrid External Fixation Device into Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHH04Z	Insertion of Internal Fixation Device into Left Tibia, Open Approach	PX	ICD-10-PCS
0QHH05Z	Insertion of External Fixation Device into Left Tibia, Open Approach	PX	ICD-10-PCS
0QHH06Z	Insertion of Intramedullary Internal Fixation Device into Left Tibia, Open Approach	PX	ICD-10-PCS
0QHH07Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Left Tibia, Open Approach	PX	ICD-10-PCS
0QHH08Z	Insertion of Limb Lengthening External Fixation Device into Left Tibia, Open Approach	PX	ICD-10-PCS
0QHH0BZ	Insertion of Monoplanar External Fixation Device into Left Tibia, Open Approach	PX	ICD-10-PCS
0QHH0CZ	Insertion of Ring External Fixation Device into Left Tibia, Open Approach	PX	ICD-10-PCS
0QHH0DZ	Insertion of Hybrid External Fixation Device into Left Tibia, Open Approach	PX	ICD-10-PCS
0QHH34Z	Insertion of Internal Fixation Device into Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHH35Z	Insertion of External Fixation Device into Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHH36Z	Insertion of Intramedullary Internal Fixation Device into Left Tibia, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QHH37Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHH3BZ	Insertion of Monoplanar External Fixation Device into Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHH3CZ	Insertion of Ring External Fixation Device into Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHH3DZ	Insertion of Hybrid External Fixation Device into Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QHH44Z	Insertion of Internal Fixation Device into Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHH45Z	Insertion of External Fixation Device into Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHH46Z	Insertion of Intramedullary Internal Fixation Device into Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHH47Z	Insertion of Intramedullary Limb Lengthening Internal Fixation Device into Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHH48Z	Insertion of Limb Lengthening External Fixation Device into Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHH4BZ	Insertion of Monoplanar External Fixation Device into Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHH4CZ	Insertion of Ring External Fixation Device into Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHH4DZ	Insertion of Hybrid External Fixation Device into Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHJ04Z	Insertion of Internal Fixation Device into Right Fibula, Open Approach	PX	ICD-10-PCS
0QHJ05Z	Insertion of External Fixation Device into Right Fibula, Open Approach	PX	ICD-10-PCS
0QHJ06Z	Insertion of Intramedullary Internal Fixation Device into Right Fibula, Open Approach	PX	ICD-10-PCS
0QHJ08Z	Insertion of Limb Lengthening External Fixation Device into Right Fibula, Open Approach	PX	ICD-10-PCS
0QHJ0BZ	Insertion of Monoplanar External Fixation Device into Right Fibula, Open Approach	PX	ICD-10-PCS
0QHJ0CZ	Insertion of Ring External Fixation Device into Right Fibula, Open Approach	PX	ICD-10-PCS
0QHJ0DZ	Insertion of Hybrid External Fixation Device into Right Fibula, Open Approach	PX	ICD-10-PCS
0QHJ34Z	Insertion of Internal Fixation Device into Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHJ35Z	Insertion of External Fixation Device into Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHJ36Z	Insertion of Intramedullary Internal Fixation Device into Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHJ3BZ	Insertion of Monoplanar External Fixation Device into Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHJ3CZ	Insertion of Ring External Fixation Device into Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHJ3DZ	Insertion of Hybrid External Fixation Device into Right Fibula, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QHJ44Z	Insertion of Internal Fixation Device into Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHJ45Z	Insertion of External Fixation Device into Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHJ46Z	Insertion of Intramedullary Internal Fixation Device into Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHJ48Z	Insertion of Limb Lengthening External Fixation Device into Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHJ4BZ	Insertion of Monoplanar External Fixation Device into Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHJ4CZ	Insertion of Ring External Fixation Device into Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHJ4DZ	Insertion of Hybrid External Fixation Device into Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHK04Z	Insertion of Internal Fixation Device into Left Fibula, Open Approach	PX	ICD-10-PCS
0QHK05Z	Insertion of External Fixation Device into Left Fibula, Open Approach	PX	ICD-10-PCS
0QHK06Z	Insertion of Intramedullary Internal Fixation Device into Left Fibula, Open Approach	PX	ICD-10-PCS
0QHK08Z	Insertion of Limb Lengthening External Fixation Device into Left Fibula, Open Approach	PX	ICD-10-PCS
0QHK0BZ	Insertion of Monoplanar External Fixation Device into Left Fibula, Open Approach	PX	ICD-10-PCS
0QHK0CZ	Insertion of Ring External Fixation Device into Left Fibula, Open Approach	PX	ICD-10-PCS
0QHK0DZ	Insertion of Hybrid External Fixation Device into Left Fibula, Open Approach	PX	ICD-10-PCS
0QHK34Z	Insertion of Internal Fixation Device into Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHK35Z	Insertion of External Fixation Device into Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHK36Z	Insertion of Intramedullary Internal Fixation Device into Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHK3BZ	Insertion of Monoplanar External Fixation Device into Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHK3CZ	Insertion of Ring External Fixation Device into Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHK3DZ	Insertion of Hybrid External Fixation Device into Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QHK44Z	Insertion of Internal Fixation Device into Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHK45Z	Insertion of External Fixation Device into Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHK46Z	Insertion of Intramedullary Internal Fixation Device into Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHK48Z	Insertion of Limb Lengthening External Fixation Device into Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHK4BZ	Insertion of Monoplanar External Fixation Device into Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QHK4CZ	Insertion of Ring External Fixation Device into Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHK4DZ	Insertion of Hybrid External Fixation Device into Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHL04Z	Insertion of Internal Fixation Device into Right Tarsal, Open Approach	PX	ICD-10-PCS
0QHL05Z	Insertion of External Fixation Device into Right Tarsal, Open Approach	PX	ICD-10-PCS
0QHL34Z	Insertion of Internal Fixation Device into Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QHL35Z	Insertion of External Fixation Device into Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QHL44Z	Insertion of Internal Fixation Device into Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHL45Z	Insertion of External Fixation Device into Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHM04Z	Insertion of Internal Fixation Device into Left Tarsal, Open Approach	PX	ICD-10-PCS
0QHM05Z	Insertion of External Fixation Device into Left Tarsal, Open Approach	PX	ICD-10-PCS
0QHM34Z	Insertion of Internal Fixation Device into Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QHM35Z	Insertion of External Fixation Device into Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QHM44Z	Insertion of Internal Fixation Device into Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHM45Z	Insertion of External Fixation Device into Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHN04Z	Insertion of Internal Fixation Device into Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QHN05Z	Insertion of External Fixation Device into Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QHN34Z	Insertion of Internal Fixation Device into Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QHN35Z	Insertion of External Fixation Device into Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QHN44Z	Insertion of Internal Fixation Device into Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHN45Z	Insertion of External Fixation Device into Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHP04Z	Insertion of Internal Fixation Device into Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QHP05Z	Insertion of External Fixation Device into Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QHP34Z	Insertion of Internal Fixation Device into Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QHP35Z	Insertion of External Fixation Device into Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QHP44Z	Insertion of Internal Fixation Device into Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHP45Z	Insertion of External Fixation Device into Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHQ04Z	Insertion of Internal Fixation Device into Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QHQ05Z	Insertion of External Fixation Device into Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QHQ34Z	Insertion of Internal Fixation Device into Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QHQ35Z	Insertion of External Fixation Device into Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QHQ44Z	Insertion of Internal Fixation Device into Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHQ45Z	Insertion of External Fixation Device into Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHR04Z	Insertion of Internal Fixation Device into Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QHR05Z	Insertion of External Fixation Device into Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QHR34Z	Insertion of Internal Fixation Device into Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QHR35Z	Insertion of External Fixation Device into Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QHR44Z	Insertion of Internal Fixation Device into Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHR45Z	Insertion of External Fixation Device into Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHS04Z	Insertion of Internal Fixation Device into Coccyx, Open Approach	PX	ICD-10-PCS
0QHS05Z	Insertion of External Fixation Device into Coccyx, Open Approach	PX	ICD-10-PCS
0QHS34Z	Insertion of Internal Fixation Device into Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QHS35Z	Insertion of External Fixation Device into Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QHS44Z	Insertion of Internal Fixation Device into Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHS45Z	Insertion of External Fixation Device into Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QHY0MZ	Insertion of Bone Growth Stimulator into Lower Bone, Open Approach	PX	ICD-10-PCS
0QHY3MZ	Insertion of Bone Growth Stimulator into Lower Bone, Percutaneous Approach	PX	ICD-10-PCS
0QHY4MZ	Insertion of Bone Growth Stimulator into Lower Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QN00ZZ	Release Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QN03ZZ	Release Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QN04ZZ	Release Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QN10ZZ	Release Sacrum, Open Approach	PX	ICD-10-PCS
0QN13ZZ	Release Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QN14ZZ	Release Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QN20ZZ	Release Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QN23ZZ	Release Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QN24ZZ	Release Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QN30ZZ	Release Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QN33ZZ	Release Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QN34ZZ	Release Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QN40ZZ	Release Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QN43ZZ	Release Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QN44ZZ	Release Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QN50ZZ	Release Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QN53ZZ	Release Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QN54ZZ	Release Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QN60ZZ	Release Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QN63ZZ	Release Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QN64ZZ	Release Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QN70ZZ	Release Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QN73ZZ	Release Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QN74ZZ	Release Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QN80ZZ	Release Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QN83ZZ	Release Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QN84ZZ	Release Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QN90ZZ	Release Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QN93ZZ	Release Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QN94ZZ	Release Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNB0ZZ	Release Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QNB3ZZ	Release Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QNB4ZZ	Release Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNC0ZZ	Release Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QNC3ZZ	Release Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QNC4ZZ	Release Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QND0ZZ	Release Right Patella, Open Approach	PX	ICD-10-PCS
0QND3ZZ	Release Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QND4ZZ	Release Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNF0ZZ	Release Left Patella, Open Approach	PX	ICD-10-PCS
0QNF3ZZ	Release Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QNF4ZZ	Release Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNG0ZZ	Release Right Tibia, Open Approach	PX	ICD-10-PCS
0QNG3ZZ	Release Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QNG4ZZ	Release Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNH0ZZ	Release Left Tibia, Open Approach	PX	ICD-10-PCS
0QNH3ZZ	Release Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QNH4ZZ	Release Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNJ0ZZ	Release Right Fibula, Open Approach	PX	ICD-10-PCS
0QNJ3ZZ	Release Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QNJ4ZZ	Release Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNK0ZZ	Release Left Fibula, Open Approach	PX	ICD-10-PCS
0QNK3ZZ	Release Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QNK4ZZ	Release Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNL0ZZ	Release Right Tarsal, Open Approach	PX	ICD-10-PCS
0QNL3ZZ	Release Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QNL4ZZ	Release Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNM0ZZ	Release Left Tarsal, Open Approach	PX	ICD-10-PCS
0QNM3ZZ	Release Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QNM4ZZ	Release Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNN0ZZ	Release Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QNN3ZZ	Release Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QNN4ZZ	Release Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNP0ZZ	Release Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QNP3ZZ	Release Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QNP4ZZ	Release Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNQ0ZZ	Release Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QNQ3ZZ	Release Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QNQ4ZZ	Release Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNR0ZZ	Release Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QNR3ZZ	Release Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QNR4ZZ	Release Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QNS0ZZ	Release Coccyx, Open Approach	PX	ICD-10-PCS
0QNS3ZZ	Release Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QNS4ZZ	Release Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP004Z	Removal of Internal Fixation Device from Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QP005Z	Removal of External Fixation Device from Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QP007Z	Removal of Autologous Tissue Substitute from Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QP00JZ	Removal of Synthetic Substitute from Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QP00KZ	Removal of Nonautologous Tissue Substitute from Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QP034Z	Removal of Internal Fixation Device from Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QP035Z	Removal of External Fixation Device from Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QP037Z	Removal of Autologous Tissue Substitute from Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QP03JZ	Removal of Synthetic Substitute from Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QP03KZ	Removal of Nonautologous Tissue Substitute from Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QP044Z	Removal of Internal Fixation Device from Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP045Z	Removal of External Fixation Device from Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP047Z	Removal of Autologous Tissue Substitute from Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP04JZ	Removal of Synthetic Substitute from Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP04KZ	Removal of Nonautologous Tissue Substitute from Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP104Z	Removal of Internal Fixation Device from Sacrum, Open Approach	PX	ICD-10-PCS
0QP105Z	Removal of External Fixation Device from Sacrum, Open Approach	PX	ICD-10-PCS
0QP107Z	Removal of Autologous Tissue Substitute from Sacrum, Open Approach	PX	ICD-10-PCS
0QP10JZ	Removal of Synthetic Substitute from Sacrum, Open Approach	PX	ICD-10-PCS
0QP10KZ	Removal of Nonautologous Tissue Substitute from Sacrum, Open Approach	PX	ICD-10-PCS
0QP134Z	Removal of Internal Fixation Device from Sacrum, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QP135Z	Removal of External Fixation Device from Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QP137Z	Removal of Autologous Tissue Substitute from Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QP13JZ	Removal of Synthetic Substitute from Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QP13KZ	Removal of Nonautologous Tissue Substitute from Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QP144Z	Removal of Internal Fixation Device from Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP145Z	Removal of External Fixation Device from Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP147Z	Removal of Autologous Tissue Substitute from Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP14JZ	Removal of Synthetic Substitute from Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP14KZ	Removal of Nonautologous Tissue Substitute from Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP204Z	Removal of Internal Fixation Device from Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QP205Z	Removal of External Fixation Device from Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QP207Z	Removal of Autologous Tissue Substitute from Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QP20JZ	Removal of Synthetic Substitute from Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QP20KZ	Removal of Nonautologous Tissue Substitute from Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QP234Z	Removal of Internal Fixation Device from Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QP235Z	Removal of External Fixation Device from Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QP237Z	Removal of Autologous Tissue Substitute from Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QP23JZ	Removal of Synthetic Substitute from Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QP23KZ	Removal of Nonautologous Tissue Substitute from Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QP244Z	Removal of Internal Fixation Device from Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP245Z	Removal of External Fixation Device from Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP247Z	Removal of Autologous Tissue Substitute from Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP24JZ	Removal of Synthetic Substitute from Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP24KZ	Removal of Nonautologous Tissue Substitute from Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP304Z	Removal of Internal Fixation Device from Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QP305Z	Removal of External Fixation Device from Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QP307Z	Removal of Autologous Tissue Substitute from Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QP30JZ	Removal of Synthetic Substitute from Left Pelvic Bone, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QP30KZ	Removal of Nonautologous Tissue Substitute from Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QP334Z	Removal of Internal Fixation Device from Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QP335Z	Removal of External Fixation Device from Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QP337Z	Removal of Autologous Tissue Substitute from Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QP33JZ	Removal of Synthetic Substitute from Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QP33KZ	Removal of Nonautologous Tissue Substitute from Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QP344Z	Removal of Internal Fixation Device from Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP345Z	Removal of External Fixation Device from Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP347Z	Removal of Autologous Tissue Substitute from Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP34JZ	Removal of Synthetic Substitute from Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP34KZ	Removal of Nonautologous Tissue Substitute from Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP404Z	Removal of Internal Fixation Device from Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QP405Z	Removal of External Fixation Device from Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QP407Z	Removal of Autologous Tissue Substitute from Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QP40JZ	Removal of Synthetic Substitute from Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QP40KZ	Removal of Nonautologous Tissue Substitute from Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QP434Z	Removal of Internal Fixation Device from Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QP435Z	Removal of External Fixation Device from Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QP437Z	Removal of Autologous Tissue Substitute from Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QP43JZ	Removal of Synthetic Substitute from Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QP43KZ	Removal of Nonautologous Tissue Substitute from Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QP444Z	Removal of Internal Fixation Device from Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP445Z	Removal of External Fixation Device from Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP447Z	Removal of Autologous Tissue Substitute from Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QP44JZ	Removal of Synthetic Substitute from Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP44KZ	Removal of Nonautologous Tissue Substitute from Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP504Z	Removal of Internal Fixation Device from Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QP505Z	Removal of External Fixation Device from Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QP507Z	Removal of Autologous Tissue Substitute from Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QP50JZ	Removal of Synthetic Substitute from Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QP50KZ	Removal of Nonautologous Tissue Substitute from Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QP534Z	Removal of Internal Fixation Device from Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QP535Z	Removal of External Fixation Device from Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QP537Z	Removal of Autologous Tissue Substitute from Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QP53JZ	Removal of Synthetic Substitute from Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QP53KZ	Removal of Nonautologous Tissue Substitute from Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QP544Z	Removal of Internal Fixation Device from Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP545Z	Removal of External Fixation Device from Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP547Z	Removal of Autologous Tissue Substitute from Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP54JZ	Removal of Synthetic Substitute from Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP54KZ	Removal of Nonautologous Tissue Substitute from Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP604Z	Removal of Internal Fixation Device from Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QP605Z	Removal of External Fixation Device from Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QP607Z	Removal of Autologous Tissue Substitute from Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QP60JZ	Removal of Synthetic Substitute from Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QP60KZ	Removal of Nonautologous Tissue Substitute from Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QP634Z	Removal of Internal Fixation Device from Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QP635Z	Removal of External Fixation Device from Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QP637Z	Removal of Autologous Tissue Substitute from Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QP63JZ	Removal of Synthetic Substitute from Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QP63KZ	Removal of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QP644Z	Removal of Internal Fixation Device from Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP645Z	Removal of External Fixation Device from Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP647Z	Removal of Autologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP64JZ	Removal of Synthetic Substitute from Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP64KZ	Removal of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP704Z	Removal of Internal Fixation Device from Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QP705Z	Removal of External Fixation Device from Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QP707Z	Removal of Autologous Tissue Substitute from Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QP70JZ	Removal of Synthetic Substitute from Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QP70KZ	Removal of Nonautologous Tissue Substitute from Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QP734Z	Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QP735Z	Removal of External Fixation Device from Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QP737Z	Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QP73JZ	Removal of Synthetic Substitute from Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QP73KZ	Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QP744Z	Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP745Z	Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP747Z	Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP74JZ	Removal of Synthetic Substitute from Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP74KZ	Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP804Z	Removal of Internal Fixation Device from Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QP805Z	Removal of External Fixation Device from Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QP807Z	Removal of Autologous Tissue Substitute from Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QP80JZ	Removal of Synthetic Substitute from Right Femoral Shaft, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QP80KZ	Removal of Nonautologous Tissue Substitute from Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QP834Z	Removal of Internal Fixation Device from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QP835Z	Removal of External Fixation Device from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QP837Z	Removal of Autologous Tissue Substitute from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QP83JZ	Removal of Synthetic Substitute from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QP83KZ	Removal of Nonautologous Tissue Substitute from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QP844Z	Removal of Internal Fixation Device from Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP845Z	Removal of External Fixation Device from Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP847Z	Removal of Autologous Tissue Substitute from Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP84JZ	Removal of Synthetic Substitute from Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP84KZ	Removal of Nonautologous Tissue Substitute from Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP904Z	Removal of Internal Fixation Device from Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QP905Z	Removal of External Fixation Device from Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QP907Z	Removal of Autologous Tissue Substitute from Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QP90JZ	Removal of Synthetic Substitute from Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QP90KZ	Removal of Nonautologous Tissue Substitute from Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QP934Z	Removal of Internal Fixation Device from Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QP935Z	Removal of External Fixation Device from Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QP937Z	Removal of Autologous Tissue Substitute from Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QP93JZ	Removal of Synthetic Substitute from Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QP93KZ	Removal of Nonautologous Tissue Substitute from Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QP944Z	Removal of Internal Fixation Device from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP945Z	Removal of External Fixation Device from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP947Z	Removal of Autologous Tissue Substitute from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QP94JZ	Removal of Synthetic Substitute from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QP94KZ	Removal of Nonautologous Tissue Substitute from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPB04Z	Removal of Internal Fixation Device from Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QPB05Z	Removal of External Fixation Device from Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QPB07Z	Removal of Autologous Tissue Substitute from Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QPB0JZ	Removal of Synthetic Substitute from Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QPB0KZ	Removal of Nonautologous Tissue Substitute from Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QPB34Z	Removal of Internal Fixation Device from Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QPB35Z	Removal of External Fixation Device from Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QPB37Z	Removal of Autologous Tissue Substitute from Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QPB3JZ	Removal of Synthetic Substitute from Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QPB3KZ	Removal of Nonautologous Tissue Substitute from Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QPB44Z	Removal of Internal Fixation Device from Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPB45Z	Removal of External Fixation Device from Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPB47Z	Removal of Autologous Tissue Substitute from Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPB4JZ	Removal of Synthetic Substitute from Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPB4KZ	Removal of Nonautologous Tissue Substitute from Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPC04Z	Removal of Internal Fixation Device from Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QPC05Z	Removal of External Fixation Device from Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QPC07Z	Removal of Autologous Tissue Substitute from Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QPC0JZ	Removal of Synthetic Substitute from Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QPC0KZ	Removal of Nonautologous Tissue Substitute from Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QPC34Z	Removal of Internal Fixation Device from Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QPC35Z	Removal of External Fixation Device from Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QPC37Z	Removal of Autologous Tissue Substitute from Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QPC3JZ	Removal of Synthetic Substitute from Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QPC3KZ	Removal of Nonautologous Tissue Substitute from Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QPC44Z	Removal of Internal Fixation Device from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPC45Z	Removal of External Fixation Device from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPC47Z	Removal of Autologous Tissue Substitute from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPC4JZ	Removal of Synthetic Substitute from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPC4KZ	Removal of Nonautologous Tissue Substitute from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPD04Z	Removal of Internal Fixation Device from Right Patella, Open Approach	PX	ICD-10-PCS
0QPD05Z	Removal of External Fixation Device from Right Patella, Open Approach	PX	ICD-10-PCS
0QPD07Z	Removal of Autologous Tissue Substitute from Right Patella, Open Approach	PX	ICD-10-PCS
0QPD0JZ	Removal of Synthetic Substitute from Right Patella, Open Approach	PX	ICD-10-PCS
0QPD0KZ	Removal of Nonautologous Tissue Substitute from Right Patella, Open Approach	PX	ICD-10-PCS
0QPD34Z	Removal of Internal Fixation Device from Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QPD35Z	Removal of External Fixation Device from Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QPD37Z	Removal of Autologous Tissue Substitute from Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QPD3JZ	Removal of Synthetic Substitute from Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QPD3KZ	Removal of Nonautologous Tissue Substitute from Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QPD44Z	Removal of Internal Fixation Device from Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPD45Z	Removal of External Fixation Device from Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPD47Z	Removal of Autologous Tissue Substitute from Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPD4JZ	Removal of Synthetic Substitute from Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPD4KZ	Removal of Nonautologous Tissue Substitute from Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPF04Z	Removal of Internal Fixation Device from Left Patella, Open Approach	PX	ICD-10-PCS
0QPF05Z	Removal of External Fixation Device from Left Patella, Open Approach	PX	ICD-10-PCS
0QPF07Z	Removal of Autologous Tissue Substitute from Left Patella, Open Approach	PX	ICD-10-PCS
0QPF0JZ	Removal of Synthetic Substitute from Left Patella, Open Approach	PX	ICD-10-PCS
0QPF0KZ	Removal of Nonautologous Tissue Substitute from Left Patella, Open Approach	PX	ICD-10-PCS
0QPF34Z	Removal of Internal Fixation Device from Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QPF35Z	Removal of External Fixation Device from Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QPF37Z	Removal of Autologous Tissue Substitute from Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QPF3JZ	Removal of Synthetic Substitute from Left Patella, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QPF3KZ	Removal of Nonautologous Tissue Substitute from Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QPF44Z	Removal of Internal Fixation Device from Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPF45Z	Removal of External Fixation Device from Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPF47Z	Removal of Autologous Tissue Substitute from Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPF4JZ	Removal of Synthetic Substitute from Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPF4KZ	Removal of Nonautologous Tissue Substitute from Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPG04Z	Removal of Internal Fixation Device from Right Tibia, Open Approach	PX	ICD-10-PCS
0QPG05Z	Removal of External Fixation Device from Right Tibia, Open Approach	PX	ICD-10-PCS
0QPG07Z	Removal of Autologous Tissue Substitute from Right Tibia, Open Approach	PX	ICD-10-PCS
0QPG0JZ	Removal of Synthetic Substitute from Right Tibia, Open Approach	PX	ICD-10-PCS
0QPG0KZ	Removal of Nonautologous Tissue Substitute from Right Tibia, Open Approach	PX	ICD-10-PCS
0QPG34Z	Removal of Internal Fixation Device from Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QPG35Z	Removal of External Fixation Device from Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QPG37Z	Removal of Autologous Tissue Substitute from Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QPG3JZ	Removal of Synthetic Substitute from Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QPG3KZ	Removal of Nonautologous Tissue Substitute from Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QPG44Z	Removal of Internal Fixation Device from Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPG45Z	Removal of External Fixation Device from Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPG47Z	Removal of Autologous Tissue Substitute from Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPG4JZ	Removal of Synthetic Substitute from Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPG4KZ	Removal of Nonautologous Tissue Substitute from Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPH04Z	Removal of Internal Fixation Device from Left Tibia, Open Approach	PX	ICD-10-PCS
0QPH05Z	Removal of External Fixation Device from Left Tibia, Open Approach	PX	ICD-10-PCS
0QPH07Z	Removal of Autologous Tissue Substitute from Left Tibia, Open Approach	PX	ICD-10-PCS
0QPH0JZ	Removal of Synthetic Substitute from Left Tibia, Open Approach	PX	ICD-10-PCS
0QPH0KZ	Removal of Nonautologous Tissue Substitute from Left Tibia, Open Approach	PX	ICD-10-PCS
0QPH34Z	Removal of Internal Fixation Device from Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QPH35Z	Removal of External Fixation Device from Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QPH37Z	Removal of Autologous Tissue Substitute from Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QPH3JZ	Removal of Synthetic Substitute from Left Tibia, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QPH3KZ	Removal of Nonautologous Tissue Substitute from Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QPH44Z	Removal of Internal Fixation Device from Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPH45Z	Removal of External Fixation Device from Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPH47Z	Removal of Autologous Tissue Substitute from Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPH4JZ	Removal of Synthetic Substitute from Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPH4KZ	Removal of Nonautologous Tissue Substitute from Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPJ04Z	Removal of Internal Fixation Device from Right Fibula, Open Approach	PX	ICD-10-PCS
0QPJ05Z	Removal of External Fixation Device from Right Fibula, Open Approach	PX	ICD-10-PCS
0QPJ07Z	Removal of Autologous Tissue Substitute from Right Fibula, Open Approach	PX	ICD-10-PCS
0QPJ0JZ	Removal of Synthetic Substitute from Right Fibula, Open Approach	PX	ICD-10-PCS
0QPJ0KZ	Removal of Nonautologous Tissue Substitute from Right Fibula, Open Approach	PX	ICD-10-PCS
0QPJ34Z	Removal of Internal Fixation Device from Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QPJ35Z	Removal of External Fixation Device from Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QPJ37Z	Removal of Autologous Tissue Substitute from Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QPJ3JZ	Removal of Synthetic Substitute from Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QPJ3KZ	Removal of Nonautologous Tissue Substitute from Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QPJ44Z	Removal of Internal Fixation Device from Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPJ45Z	Removal of External Fixation Device from Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPJ47Z	Removal of Autologous Tissue Substitute from Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPJ4JZ	Removal of Synthetic Substitute from Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPJ4KZ	Removal of Nonautologous Tissue Substitute from Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPK04Z	Removal of Internal Fixation Device from Left Fibula, Open Approach	PX	ICD-10-PCS
0QPK05Z	Removal of External Fixation Device from Left Fibula, Open Approach	PX	ICD-10-PCS
0QPK07Z	Removal of Autologous Tissue Substitute from Left Fibula, Open Approach	PX	ICD-10-PCS
0QPK0JZ	Removal of Synthetic Substitute from Left Fibula, Open Approach	PX	ICD-10-PCS
0QPK0KZ	Removal of Nonautologous Tissue Substitute from Left Fibula, Open Approach	PX	ICD-10-PCS
0QPK34Z	Removal of Internal Fixation Device from Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QPK35Z	Removal of External Fixation Device from Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QPK37Z	Removal of Autologous Tissue Substitute from Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QPK3JZ	Removal of Synthetic Substitute from Left Fibula, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QPK3KZ	Removal of Nonautologous Tissue Substitute from Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QPK44Z	Removal of Internal Fixation Device from Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPK45Z	Removal of External Fixation Device from Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPK47Z	Removal of Autologous Tissue Substitute from Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPK4JZ	Removal of Synthetic Substitute from Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPK4KZ	Removal of Nonautologous Tissue Substitute from Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPL04Z	Removal of Internal Fixation Device from Right Tarsal, Open Approach	PX	ICD-10-PCS
0QPL05Z	Removal of External Fixation Device from Right Tarsal, Open Approach	PX	ICD-10-PCS
0QPL07Z	Removal of Autologous Tissue Substitute from Right Tarsal, Open Approach	PX	ICD-10-PCS
0QPL0JZ	Removal of Synthetic Substitute from Right Tarsal, Open Approach	PX	ICD-10-PCS
0QPL0KZ	Removal of Nonautologous Tissue Substitute from Right Tarsal, Open Approach	PX	ICD-10-PCS
0QPL34Z	Removal of Internal Fixation Device from Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPL35Z	Removal of External Fixation Device from Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPL37Z	Removal of Autologous Tissue Substitute from Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPL3JZ	Removal of Synthetic Substitute from Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPL3KZ	Removal of Nonautologous Tissue Substitute from Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPL44Z	Removal of Internal Fixation Device from Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPL45Z	Removal of External Fixation Device from Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPL47Z	Removal of Autologous Tissue Substitute from Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPL4JZ	Removal of Synthetic Substitute from Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPL4KZ	Removal of Nonautologous Tissue Substitute from Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPM04Z	Removal of Internal Fixation Device from Left Tarsal, Open Approach	PX	ICD-10-PCS
0QPM05Z	Removal of External Fixation Device from Left Tarsal, Open Approach	PX	ICD-10-PCS
0QPM07Z	Removal of Autologous Tissue Substitute from Left Tarsal, Open Approach	PX	ICD-10-PCS
0QPM0JZ	Removal of Synthetic Substitute from Left Tarsal, Open Approach	PX	ICD-10-PCS
0QPM0KZ	Removal of Nonautologous Tissue Substitute from Left Tarsal, Open Approach	PX	ICD-10-PCS
0QPM34Z	Removal of Internal Fixation Device from Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPM35Z	Removal of External Fixation Device from Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPM37Z	Removal of Autologous Tissue Substitute from Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPM3JZ	Removal of Synthetic Substitute from Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QPM3KZ	Removal of Nonautologous Tissue Substitute from Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPM44Z	Removal of Internal Fixation Device from Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPM45Z	Removal of External Fixation Device from Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPM47Z	Removal of Autologous Tissue Substitute from Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPM4JZ	Removal of Synthetic Substitute from Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPM4KZ	Removal of Nonautologous Tissue Substitute from Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPN04Z	Removal of Internal Fixation Device from Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QPN05Z	Removal of External Fixation Device from Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QPN07Z	Removal of Autologous Tissue Substitute from Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QPN0JZ	Removal of Synthetic Substitute from Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QPN0KZ	Removal of Nonautologous Tissue Substitute from Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QPN34Z	Removal of Internal Fixation Device from Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPN35Z	Removal of External Fixation Device from Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPN37Z	Removal of Autologous Tissue Substitute from Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPN3JZ	Removal of Synthetic Substitute from Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPN3KZ	Removal of Nonautologous Tissue Substitute from Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPN44Z	Removal of Internal Fixation Device from Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPN45Z	Removal of External Fixation Device from Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPN47Z	Removal of Autologous Tissue Substitute from Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPN4JZ	Removal of Synthetic Substitute from Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPN4KZ	Removal of Nonautologous Tissue Substitute from Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPP04Z	Removal of Internal Fixation Device from Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QPP05Z	Removal of External Fixation Device from Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QPP07Z	Removal of Autologous Tissue Substitute from Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QPP0JZ	Removal of Synthetic Substitute from Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QPP0KZ	Removal of Nonautologous Tissue Substitute from Left Metatarsal, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QPP34Z	Removal of Internal Fixation Device from Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPP35Z	Removal of External Fixation Device from Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPP37Z	Removal of Autologous Tissue Substitute from Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPP3JZ	Removal of Synthetic Substitute from Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPP3KZ	Removal of Nonautologous Tissue Substitute from Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QPP44Z	Removal of Internal Fixation Device from Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPP45Z	Removal of External Fixation Device from Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPP47Z	Removal of Autologous Tissue Substitute from Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPP4JZ	Removal of Synthetic Substitute from Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPP4KZ	Removal of Nonautologous Tissue Substitute from Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPQ04Z	Removal of Internal Fixation Device from Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QPQ05Z	Removal of External Fixation Device from Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QPQ07Z	Removal of Autologous Tissue Substitute from Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QPQ0JZ	Removal of Synthetic Substitute from Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QPQ0KZ	Removal of Nonautologous Tissue Substitute from Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QPQ34Z	Removal of Internal Fixation Device from Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QPQ35Z	Removal of External Fixation Device from Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QPQ37Z	Removal of Autologous Tissue Substitute from Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QPQ3JZ	Removal of Synthetic Substitute from Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QPQ3KZ	Removal of Nonautologous Tissue Substitute from Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QPQ44Z	Removal of Internal Fixation Device from Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPQ45Z	Removal of External Fixation Device from Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPQ47Z	Removal of Autologous Tissue Substitute from Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPQ4JZ	Removal of Synthetic Substitute from Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QPQ4KZ	Removal of Nonautologous Tissue Substitute from Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPR04Z	Removal of Internal Fixation Device from Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QPR05Z	Removal of External Fixation Device from Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QPR07Z	Removal of Autologous Tissue Substitute from Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QPR0JZ	Removal of Synthetic Substitute from Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QPR0KZ	Removal of Nonautologous Tissue Substitute from Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QPR34Z	Removal of Internal Fixation Device from Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QPR35Z	Removal of External Fixation Device from Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QPR37Z	Removal of Autologous Tissue Substitute from Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QPR3JZ	Removal of Synthetic Substitute from Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QPR3KZ	Removal of Nonautologous Tissue Substitute from Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QPR44Z	Removal of Internal Fixation Device from Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPR45Z	Removal of External Fixation Device from Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPR47Z	Removal of Autologous Tissue Substitute from Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPR4JZ	Removal of Synthetic Substitute from Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPR4KZ	Removal of Nonautologous Tissue Substitute from Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPS04Z	Removal of Internal Fixation Device from Coccyx, Open Approach	PX	ICD-10-PCS
0QPS05Z	Removal of External Fixation Device from Coccyx, Open Approach	PX	ICD-10-PCS
0QPS07Z	Removal of Autologous Tissue Substitute from Coccyx, Open Approach	PX	ICD-10-PCS
0QPS0JZ	Removal of Synthetic Substitute from Coccyx, Open Approach	PX	ICD-10-PCS
0QPS0KZ	Removal of Nonautologous Tissue Substitute from Coccyx, Open Approach	PX	ICD-10-PCS
0QPS34Z	Removal of Internal Fixation Device from Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QPS35Z	Removal of External Fixation Device from Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QPS37Z	Removal of Autologous Tissue Substitute from Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QPS3JZ	Removal of Synthetic Substitute from Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QPS3KZ	Removal of Nonautologous Tissue Substitute from Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QPS44Z	Removal of Internal Fixation Device from Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPS45Z	Removal of External Fixation Device from Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPS47Z	Removal of Autologous Tissue Substitute from Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QPS4JZ	Removal of Synthetic Substitute from Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPS4KZ	Removal of Nonautologous Tissue Substitute from Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPY00Z	Removal of Drainage Device from Lower Bone, Open Approach	PX	ICD-10-PCS
0QPY0MZ	Removal of Bone Growth Stimulator from Lower Bone, Open Approach	PX	ICD-10-PCS
0QPY3MZ	Removal of Bone Growth Stimulator from Lower Bone, Percutaneous Approach	PX	ICD-10-PCS
0QPY40Z	Removal of Drainage Device from Lower Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QPY4MZ	Removal of Bone Growth Stimulator from Lower Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQ00ZZ	Repair Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QQ03ZZ	Repair Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QQ04ZZ	Repair Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQ10ZZ	Repair Sacrum, Open Approach	PX	ICD-10-PCS
0QQ13ZZ	Repair Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QQ14ZZ	Repair Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQ20ZZ	Repair Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QQ23ZZ	Repair Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QQ24ZZ	Repair Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQ30ZZ	Repair Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QQ33ZZ	Repair Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QQ34ZZ	Repair Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQ40ZZ	Repair Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QQ43ZZ	Repair Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QQ44ZZ	Repair Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQ50ZZ	Repair Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QQ53ZZ	Repair Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QQ54ZZ	Repair Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQ60ZZ	Repair Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QQ63ZZ	Repair Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QQ64ZZ	Repair Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQ70ZZ	Repair Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QQ73ZZ	Repair Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QQ74ZZ	Repair Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQ80ZZ	Repair Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QQ83ZZ	Repair Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QQ84ZZ	Repair Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQ90ZZ	Repair Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QQ93ZZ	Repair Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QQ94ZZ	Repair Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQB0ZZ	Repair Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QQB3ZZ	Repair Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QQB4ZZ	Repair Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQC0ZZ	Repair Left Lower Femur, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QQC3ZZ	Repair Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QQC4ZZ	Repair Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQD0ZZ	Repair Right Patella, Open Approach	PX	ICD-10-PCS
0QQD3ZZ	Repair Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QQD4ZZ	Repair Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQF0ZZ	Repair Left Patella, Open Approach	PX	ICD-10-PCS
0QQF3ZZ	Repair Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QQF4ZZ	Repair Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQG0ZZ	Repair Right Tibia, Open Approach	PX	ICD-10-PCS
0QQG3ZZ	Repair Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QQG4ZZ	Repair Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQH0ZZ	Repair Left Tibia, Open Approach	PX	ICD-10-PCS
0QQH3ZZ	Repair Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QQH4ZZ	Repair Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQJ0ZZ	Repair Right Fibula, Open Approach	PX	ICD-10-PCS
0QQJ3ZZ	Repair Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QQJ4ZZ	Repair Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQK0ZZ	Repair Left Fibula, Open Approach	PX	ICD-10-PCS
0QQK3ZZ	Repair Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QQK4ZZ	Repair Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQL0ZZ	Repair Right Tarsal, Open Approach	PX	ICD-10-PCS
0QQL3ZZ	Repair Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QQL4ZZ	Repair Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQM0ZZ	Repair Left Tarsal, Open Approach	PX	ICD-10-PCS
0QQM3ZZ	Repair Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QQM4ZZ	Repair Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQN0ZZ	Repair Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QQN3ZZ	Repair Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QQN4ZZ	Repair Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQP0ZZ	Repair Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QQP3ZZ	Repair Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QQP4ZZ	Repair Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQQ0ZZ	Repair Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QQQ3ZZ	Repair Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QQQ4ZZ	Repair Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQR0ZZ	Repair Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QQR3ZZ	Repair Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QQR4ZZ	Repair Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QQS0ZZ	Repair Coccyx, Open Approach	PX	ICD-10-PCS
0QQS3ZZ	Repair Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QQS4ZZ	Repair Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR007Z	Replacement of Lumbar Vertebra with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR00JZ	Replacement of Lumbar Vertebra with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QR00KZ	Replacement of Lumbar Vertebra with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR037Z	Replacement of Lumbar Vertebra with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR03JZ	Replacement of Lumbar Vertebra with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR03KZ	Replacement of Lumbar Vertebra with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR047Z	Replacement of Lumbar Vertebra with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR04JZ	Replacement of Lumbar Vertebra with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR04KZ	Replacement of Lumbar Vertebra with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR107Z	Replacement of Sacrum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR10JZ	Replacement of Sacrum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QR10KZ	Replacement of Sacrum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR137Z	Replacement of Sacrum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR13JZ	Replacement of Sacrum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR13KZ	Replacement of Sacrum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR147Z	Replacement of Sacrum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR14JZ	Replacement of Sacrum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR14KZ	Replacement of Sacrum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR207Z	Replacement of Right Pelvic Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR20JZ	Replacement of Right Pelvic Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QR20KZ	Replacement of Right Pelvic Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR237Z	Replacement of Right Pelvic Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR23JZ	Replacement of Right Pelvic Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR23KZ	Replacement of Right Pelvic Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR247Z	Replacement of Right Pelvic Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR24JZ	Replacement of Right Pelvic Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR24KZ	Replacement of Right Pelvic Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QR307Z	Replacement of Left Pelvic Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR30JZ	Replacement of Left Pelvic Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QR30KZ	Replacement of Left Pelvic Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR337Z	Replacement of Left Pelvic Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR33JZ	Replacement of Left Pelvic Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR33KZ	Replacement of Left Pelvic Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR347Z	Replacement of Left Pelvic Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR34JZ	Replacement of Left Pelvic Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR34KZ	Replacement of Left Pelvic Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR407Z	Replacement of Right Acetabulum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR40JZ	Replacement of Right Acetabulum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QR40KZ	Replacement of Right Acetabulum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR437Z	Replacement of Right Acetabulum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR43JZ	Replacement of Right Acetabulum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR43KZ	Replacement of Right Acetabulum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR447Z	Replacement of Right Acetabulum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR44JZ	Replacement of Right Acetabulum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR44KZ	Replacement of Right Acetabulum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR507Z	Replacement of Left Acetabulum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR50JZ	Replacement of Left Acetabulum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QR50KZ	Replacement of Left Acetabulum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR537Z	Replacement of Left Acetabulum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR53JZ	Replacement of Left Acetabulum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR53KZ	Replacement of Left Acetabulum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QR547Z	Replacement of Left Acetabulum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR54JZ	Replacement of Left Acetabulum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR54KZ	Replacement of Left Acetabulum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR607Z	Replacement of Right Upper Femur with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR60JZ	Replacement of Right Upper Femur with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QR60KZ	Replacement of Right Upper Femur with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR637Z	Replacement of Right Upper Femur with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR63JZ	Replacement of Right Upper Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR63KZ	Replacement of Right Upper Femur with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR647Z	Replacement of Right Upper Femur with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR64JZ	Replacement of Right Upper Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR64KZ	Replacement of Right Upper Femur with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR707Z	Replacement of Left Upper Femur with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR70JZ	Replacement of Left Upper Femur with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QR70KZ	Replacement of Left Upper Femur with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR737Z	Replacement of Left Upper Femur with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR73JZ	Replacement of Left Upper Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR73KZ	Replacement of Left Upper Femur with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR747Z	Replacement of Left Upper Femur with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR74JZ	Replacement of Left Upper Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR74KZ	Replacement of Left Upper Femur with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR807Z	Replacement of Right Femoral Shaft with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR80JZ	Replacement of Right Femoral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QR80KZ	Replacement of Right Femoral Shaft with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QR837Z	Replacement of Right Femoral Shaft with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR83JZ	Replacement of Right Femoral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR83KZ	Replacement of Right Femoral Shaft with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR847Z	Replacement of Right Femoral Shaft with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR84JZ	Replacement of Right Femoral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR84KZ	Replacement of Right Femoral Shaft with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR907Z	Replacement of Left Femoral Shaft with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR90JZ	Replacement of Left Femoral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QR90KZ	Replacement of Left Femoral Shaft with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QR937Z	Replacement of Left Femoral Shaft with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR93JZ	Replacement of Left Femoral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR93KZ	Replacement of Left Femoral Shaft with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QR947Z	Replacement of Left Femoral Shaft with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR94JZ	Replacement of Left Femoral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QR94KZ	Replacement of Left Femoral Shaft with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRB07Z	Replacement of Right Lower Femur with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRB0JZ	Replacement of Right Lower Femur with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRB0KZ	Replacement of Right Lower Femur with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRB37Z	Replacement of Right Lower Femur with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRB3JZ	Replacement of Right Lower Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRB3KZ	Replacement of Right Lower Femur with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRB47Z	Replacement of Right Lower Femur with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRB4JZ	Replacement of Right Lower Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QRB4KZ	Replacement of Right Lower Femur with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRC07Z	Replacement of Left Lower Femur with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRC0JZ	Replacement of Left Lower Femur with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRC0KZ	Replacement of Left Lower Femur with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRC37Z	Replacement of Left Lower Femur with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRC3JZ	Replacement of Left Lower Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRC3KZ	Replacement of Left Lower Femur with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRC47Z	Replacement of Left Lower Femur with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRC4JZ	Replacement of Left Lower Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRC4KZ	Replacement of Left Lower Femur with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRD07Z	Replacement of Right Patella with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRD0JZ	Replacement of Right Patella with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRD0KZ	Replacement of Right Patella with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRD37Z	Replacement of Right Patella with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRD3JZ	Replacement of Right Patella with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRD3KZ	Replacement of Right Patella with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRD47Z	Replacement of Right Patella with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRD4JZ	Replacement of Right Patella with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRD4KZ	Replacement of Right Patella with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRF07Z	Replacement of Left Patella with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRF0JZ	Replacement of Left Patella with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRF0KZ	Replacement of Left Patella with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRF37Z	Replacement of Left Patella with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRF3JZ	Replacement of Left Patella with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRF3KZ	Replacement of Left Patella with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QRF47Z	Replacement of Left Patella with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRF4JZ	Replacement of Left Patella with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRF4KZ	Replacement of Left Patella with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRG07Z	Replacement of Right Tibia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRG0JZ	Replacement of Right Tibia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRG0KZ	Replacement of Right Tibia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRG37Z	Replacement of Right Tibia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRG3JZ	Replacement of Right Tibia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRG3KZ	Replacement of Right Tibia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRG47Z	Replacement of Right Tibia with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRG4JZ	Replacement of Right Tibia with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRG4KZ	Replacement of Right Tibia with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRH07Z	Replacement of Left Tibia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRH0JZ	Replacement of Left Tibia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRH0KZ	Replacement of Left Tibia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRH37Z	Replacement of Left Tibia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRH3JZ	Replacement of Left Tibia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRH3KZ	Replacement of Left Tibia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRH47Z	Replacement of Left Tibia with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRH4JZ	Replacement of Left Tibia with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRH4KZ	Replacement of Left Tibia with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRJ07Z	Replacement of Right Fibula with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRJ0JZ	Replacement of Right Fibula with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRJ0KZ	Replacement of Right Fibula with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRJ37Z	Replacement of Right Fibula with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRJ3JZ	Replacement of Right Fibula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRJ3KZ	Replacement of Right Fibula with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QRJ47Z	Replacement of Right Fibula with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRJ4JZ	Replacement of Right Fibula with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRJ4KZ	Replacement of Right Fibula with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRK07Z	Replacement of Left Fibula with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRK0JZ	Replacement of Left Fibula with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRK0KZ	Replacement of Left Fibula with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRK37Z	Replacement of Left Fibula with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRK3JZ	Replacement of Left Fibula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRK3KZ	Replacement of Left Fibula with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRK47Z	Replacement of Left Fibula with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRK4JZ	Replacement of Left Fibula with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRK4KZ	Replacement of Left Fibula with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRL07Z	Replacement of Right Tarsal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRL0JZ	Replacement of Right Tarsal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRL0KZ	Replacement of Right Tarsal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRL37Z	Replacement of Right Tarsal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRL3JZ	Replacement of Right Tarsal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRL3KZ	Replacement of Right Tarsal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRL47Z	Replacement of Right Tarsal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRL4JZ	Replacement of Right Tarsal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRL4KZ	Replacement of Right Tarsal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRM07Z	Replacement of Left Tarsal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRM0JZ	Replacement of Left Tarsal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRM0KZ	Replacement of Left Tarsal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRM37Z	Replacement of Left Tarsal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRM3JZ	Replacement of Left Tarsal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRM3KZ	Replacement of Left Tarsal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QRM47Z	Replacement of Left Tarsal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRM4JZ	Replacement of Left Tarsal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRM4KZ	Replacement of Left Tarsal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRN07Z	Replacement of Right Metatarsal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRN0JZ	Replacement of Right Metatarsal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRN0KZ	Replacement of Right Metatarsal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRN37Z	Replacement of Right Metatarsal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRN3JZ	Replacement of Right Metatarsal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRN3KZ	Replacement of Right Metatarsal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRN47Z	Replacement of Right Metatarsal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRN4JZ	Replacement of Right Metatarsal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRN4KZ	Replacement of Right Metatarsal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRP07Z	Replacement of Left Metatarsal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRP0JZ	Replacement of Left Metatarsal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRP0KZ	Replacement of Left Metatarsal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRP37Z	Replacement of Left Metatarsal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRP3JZ	Replacement of Left Metatarsal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRP3KZ	Replacement of Left Metatarsal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRP47Z	Replacement of Left Metatarsal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRP4JZ	Replacement of Left Metatarsal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRP4KZ	Replacement of Left Metatarsal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRQ07Z	Replacement of Right Toe Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRQ0JZ	Replacement of Right Toe Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRQ0KZ	Replacement of Right Toe Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QRQ37Z	Replacement of Right Toe Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRQ3JZ	Replacement of Right Toe Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRQ3KZ	Replacement of Right Toe Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRQ47Z	Replacement of Right Toe Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRQ4JZ	Replacement of Right Toe Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRQ4KZ	Replacement of Right Toe Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRR07Z	Replacement of Left Toe Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRR0JZ	Replacement of Left Toe Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRR0KZ	Replacement of Left Toe Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRR37Z	Replacement of Left Toe Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRR3JZ	Replacement of Left Toe Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRR3KZ	Replacement of Left Toe Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRR47Z	Replacement of Left Toe Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRR4JZ	Replacement of Left Toe Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRR4KZ	Replacement of Left Toe Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRS07Z	Replacement of Coccyx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRS0JZ	Replacement of Coccyx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QRS0KZ	Replacement of Coccyx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QRS37Z	Replacement of Coccyx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRS3JZ	Replacement of Coccyx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRS3KZ	Replacement of Coccyx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QRS47Z	Replacement of Coccyx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRS4JZ	Replacement of Coccyx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QRS4KZ	Replacement of Coccyx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS003Z	Reposition Lumbar Vertebra with Spinal Stabilization Device, Vertebral Body Tether, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QS004Z	Reposition Lumbar Vertebra with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS00ZZ	Reposition Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QS034Z	Reposition Lumbar Vertebra with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS03ZZ	Reposition Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QS043Z	Reposition Lumbar Vertebra with Spinal Stabilization Device, Vertebral Body Tether, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS044Z	Reposition Lumbar Vertebra with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS04ZZ	Reposition Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS104Z	Reposition Sacrum with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS10ZZ	Reposition Sacrum, Open Approach	PX	ICD-10-PCS
0QS134Z	Reposition Sacrum with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS13ZZ	Reposition Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QS144Z	Reposition Sacrum with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS14ZZ	Reposition Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS204Z	Reposition Right Pelvic Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS205Z	Reposition Right Pelvic Bone with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS20ZZ	Reposition Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QS234Z	Reposition Right Pelvic Bone with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS235Z	Reposition Right Pelvic Bone with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS244Z	Reposition Right Pelvic Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS245Z	Reposition Right Pelvic Bone with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS24ZZ	Reposition Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS304Z	Reposition Left Pelvic Bone with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS305Z	Reposition Left Pelvic Bone with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS30ZZ	Reposition Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QS334Z	Reposition Left Pelvic Bone with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS335Z	Reposition Left Pelvic Bone with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS344Z	Reposition Left Pelvic Bone with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS345Z	Reposition Left Pelvic Bone with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS34ZZ	Reposition Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS404Z	Reposition Right Acetabulum with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS40ZZ	Reposition Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QS434Z	Reposition Right Acetabulum with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QS444Z	Reposition Right Acetabulum with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS44ZZ	Reposition Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS504Z	Reposition Left Acetabulum with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS50ZZ	Reposition Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QS534Z	Reposition Left Acetabulum with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS544Z	Reposition Left Acetabulum with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS54ZZ	Reposition Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS604Z	Reposition Right Upper Femur with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS605Z	Reposition Right Upper Femur with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS606Z	Reposition Right Upper Femur with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS60BZ	Reposition Right Upper Femur with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS60CZ	Reposition Right Upper Femur with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS60DZ	Reposition Right Upper Femur with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS60ZZ	Reposition Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QS634Z	Reposition Right Upper Femur with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS635Z	Reposition Right Upper Femur with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS636Z	Reposition Right Upper Femur with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS63BZ	Reposition Right Upper Femur with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS63CZ	Reposition Right Upper Femur with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS63DZ	Reposition Right Upper Femur with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS644Z	Reposition Right Upper Femur with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS645Z	Reposition Right Upper Femur with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS646Z	Reposition Right Upper Femur with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS64BZ	Reposition Right Upper Femur with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS64CZ	Reposition Right Upper Femur with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS64DZ	Reposition Right Upper Femur with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QS64ZZ	Reposition Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS704Z	Reposition Left Upper Femur with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS705Z	Reposition Left Upper Femur with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS706Z	Reposition Left Upper Femur with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS70BZ	Reposition Left Upper Femur with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS70CZ	Reposition Left Upper Femur with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS70DZ	Reposition Left Upper Femur with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS70ZZ	Reposition Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QS734Z	Reposition Left Upper Femur with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS735Z	Reposition Left Upper Femur with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS736Z	Reposition Left Upper Femur with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS73BZ	Reposition Left Upper Femur with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS73CZ	Reposition Left Upper Femur with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS73DZ	Reposition Left Upper Femur with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS744Z	Reposition Left Upper Femur with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS745Z	Reposition Left Upper Femur with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS746Z	Reposition Left Upper Femur with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS74BZ	Reposition Left Upper Femur with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS74CZ	Reposition Left Upper Femur with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS74DZ	Reposition Left Upper Femur with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS74ZZ	Reposition Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS804Z	Reposition Right Femoral Shaft with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS805Z	Reposition Right Femoral Shaft with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS806Z	Reposition Right Femoral Shaft with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS80BZ	Reposition Right Femoral Shaft with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS80CZ	Reposition Right Femoral Shaft with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QS80DZ	Reposition Right Femoral Shaft with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS80ZZ	Reposition Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QS834Z	Reposition Right Femoral Shaft with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS835Z	Reposition Right Femoral Shaft with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS836Z	Reposition Right Femoral Shaft with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS83BZ	Reposition Right Femoral Shaft with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS83CZ	Reposition Right Femoral Shaft with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS83DZ	Reposition Right Femoral Shaft with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS844Z	Reposition Right Femoral Shaft with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS845Z	Reposition Right Femoral Shaft with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS846Z	Reposition Right Femoral Shaft with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS84BZ	Reposition Right Femoral Shaft with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS84CZ	Reposition Right Femoral Shaft with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS84DZ	Reposition Right Femoral Shaft with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS84ZZ	Reposition Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS904Z	Reposition Left Femoral Shaft with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS905Z	Reposition Left Femoral Shaft with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS906Z	Reposition Left Femoral Shaft with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QS90BZ	Reposition Left Femoral Shaft with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS90CZ	Reposition Left Femoral Shaft with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS90DZ	Reposition Left Femoral Shaft with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0QS90ZZ	Reposition Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QS934Z	Reposition Left Femoral Shaft with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS935Z	Reposition Left Femoral Shaft with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS936Z	Reposition Left Femoral Shaft with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QS93BZ	Reposition Left Femoral Shaft with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS93CZ	Reposition Left Femoral Shaft with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS93DZ	Reposition Left Femoral Shaft with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QS944Z	Reposition Left Femoral Shaft with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS945Z	Reposition Left Femoral Shaft with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS946Z	Reposition Left Femoral Shaft with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS94BZ	Reposition Left Femoral Shaft with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS94CZ	Reposition Left Femoral Shaft with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS94DZ	Reposition Left Femoral Shaft with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QS94ZZ	Reposition Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSB04Z	Reposition Right Lower Femur with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSB05Z	Reposition Right Lower Femur with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSB06Z	Reposition Right Lower Femur with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSB0BZ	Reposition Right Lower Femur with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSB0CZ	Reposition Right Lower Femur with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSB0DZ	Reposition Right Lower Femur with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSB0ZZ	Reposition Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QSB34Z	Reposition Right Lower Femur with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSB35Z	Reposition Right Lower Femur with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSB36Z	Reposition Right Lower Femur with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSB3BZ	Reposition Right Lower Femur with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSB3CZ	Reposition Right Lower Femur with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSB3DZ	Reposition Right Lower Femur with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSB44Z	Reposition Right Lower Femur with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QSB45Z	Reposition Right Lower Femur with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSB46Z	Reposition Right Lower Femur with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSB4BZ	Reposition Right Lower Femur with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSB4CZ	Reposition Right Lower Femur with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSB4DZ	Reposition Right Lower Femur with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSB4ZZ	Reposition Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSC04Z	Reposition Left Lower Femur with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSC05Z	Reposition Left Lower Femur with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSC06Z	Reposition Left Lower Femur with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSC0BZ	Reposition Left Lower Femur with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSC0CZ	Reposition Left Lower Femur with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSC0DZ	Reposition Left Lower Femur with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSC0ZZ	Reposition Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QSC34Z	Reposition Left Lower Femur with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSC35Z	Reposition Left Lower Femur with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSC36Z	Reposition Left Lower Femur with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSC3BZ	Reposition Left Lower Femur with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSC3CZ	Reposition Left Lower Femur with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSC3DZ	Reposition Left Lower Femur with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSC44Z	Reposition Left Lower Femur with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSC45Z	Reposition Left Lower Femur with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSC46Z	Reposition Left Lower Femur with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSC4BZ	Reposition Left Lower Femur with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSC4CZ	Reposition Left Lower Femur with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSC4DZ	Reposition Left Lower Femur with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QSC4ZZ	Reposition Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSD04Z	Reposition Right Patella with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSD05Z	Reposition Right Patella with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSD0ZZ	Reposition Right Patella, Open Approach	PX	ICD-10-PCS
0QSD34Z	Reposition Right Patella with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSD35Z	Reposition Right Patella with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSD44Z	Reposition Right Patella with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSD45Z	Reposition Right Patella with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSD4ZZ	Reposition Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSF04Z	Reposition Left Patella with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSF05Z	Reposition Left Patella with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSF0ZZ	Reposition Left Patella, Open Approach	PX	ICD-10-PCS
0QSF34Z	Reposition Left Patella with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSF35Z	Reposition Left Patella with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSF44Z	Reposition Left Patella with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSF45Z	Reposition Left Patella with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSF4ZZ	Reposition Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSG04Z	Reposition Right Tibia with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSG05Z	Reposition Right Tibia with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSG06Z	Reposition Right Tibia with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSG0BZ	Reposition Right Tibia with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSG0CZ	Reposition Right Tibia with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSG0DZ	Reposition Right Tibia with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSG0ZZ	Reposition Right Tibia, Open Approach	PX	ICD-10-PCS
0QSG34Z	Reposition Right Tibia with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSG35Z	Reposition Right Tibia with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSG36Z	Reposition Right Tibia with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSG3BZ	Reposition Right Tibia with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSG3CZ	Reposition Right Tibia with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSG3DZ	Reposition Right Tibia with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSG44Z	Reposition Right Tibia with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSG45Z	Reposition Right Tibia with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QSG46Z	Reposition Right Tibia with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSG4BZ	Reposition Right Tibia with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSG4CZ	Reposition Right Tibia with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSG4DZ	Reposition Right Tibia with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSG4ZZ	Reposition Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSH04Z	Reposition Left Tibia with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSH05Z	Reposition Left Tibia with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSH06Z	Reposition Left Tibia with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSH0BZ	Reposition Left Tibia with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSH0CZ	Reposition Left Tibia with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSH0DZ	Reposition Left Tibia with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSH0ZZ	Reposition Left Tibia, Open Approach	PX	ICD-10-PCS
0QSH34Z	Reposition Left Tibia with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSH35Z	Reposition Left Tibia with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSH36Z	Reposition Left Tibia with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSH3BZ	Reposition Left Tibia with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSH3CZ	Reposition Left Tibia with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSH3DZ	Reposition Left Tibia with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSH44Z	Reposition Left Tibia with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSH45Z	Reposition Left Tibia with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSH46Z	Reposition Left Tibia with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSH4BZ	Reposition Left Tibia with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSH4CZ	Reposition Left Tibia with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSH4DZ	Reposition Left Tibia with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSH4ZZ	Reposition Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSJ04Z	Reposition Right Fibula with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSJ05Z	Reposition Right Fibula with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSJ06Z	Reposition Right Fibula with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSJ0BZ	Reposition Right Fibula with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QSJ0CZ	Reposition Right Fibula with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSJ0DZ	Reposition Right Fibula with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSJ0ZZ	Reposition Right Fibula, Open Approach	PX	ICD-10-PCS
0QSJ34Z	Reposition Right Fibula with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSJ35Z	Reposition Right Fibula with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSJ36Z	Reposition Right Fibula with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSJ3BZ	Reposition Right Fibula with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSJ3CZ	Reposition Right Fibula with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSJ3DZ	Reposition Right Fibula with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSJ44Z	Reposition Right Fibula with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSJ45Z	Reposition Right Fibula with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSJ46Z	Reposition Right Fibula with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSJ4BZ	Reposition Right Fibula with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSJ4CZ	Reposition Right Fibula with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSJ4DZ	Reposition Right Fibula with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSJ4ZZ	Reposition Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSK04Z	Reposition Left Fibula with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSK05Z	Reposition Left Fibula with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSK06Z	Reposition Left Fibula with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSK0BZ	Reposition Left Fibula with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSK0CZ	Reposition Left Fibula with Ring External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSK0DZ	Reposition Left Fibula with Hybrid External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSK0ZZ	Reposition Left Fibula, Open Approach	PX	ICD-10-PCS
0QSK34Z	Reposition Left Fibula with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSK35Z	Reposition Left Fibula with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSK36Z	Reposition Left Fibula with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSK3BZ	Reposition Left Fibula with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSK3CZ	Reposition Left Fibula with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSK3DZ	Reposition Left Fibula with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QSK44Z	Reposition Left Fibula with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSK45Z	Reposition Left Fibula with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSK46Z	Reposition Left Fibula with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSK4BZ	Reposition Left Fibula with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSK4CZ	Reposition Left Fibula with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSK4DZ	Reposition Left Fibula with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSK4ZZ	Reposition Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSL04Z	Reposition Right Tarsal with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSL05Z	Reposition Right Tarsal with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSL0ZZ	Reposition Right Tarsal, Open Approach	PX	ICD-10-PCS
0QSL34Z	Reposition Right Tarsal with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSL35Z	Reposition Right Tarsal with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSL44Z	Reposition Right Tarsal with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSL45Z	Reposition Right Tarsal with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSL4ZZ	Reposition Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSM04Z	Reposition Left Tarsal with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSM05Z	Reposition Left Tarsal with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSM0ZZ	Reposition Left Tarsal, Open Approach	PX	ICD-10-PCS
0QSM34Z	Reposition Left Tarsal with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSM35Z	Reposition Left Tarsal with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSM44Z	Reposition Left Tarsal with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSM45Z	Reposition Left Tarsal with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSM4ZZ	Reposition Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSN042	Reposition Right Metatarsal, Sesamoid Bone(s) 1st Toe, with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSN04Z	Reposition Right Metatarsal with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSN052	Reposition Right Metatarsal, Sesamoid Bone(s) 1st Toe, with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSN05Z	Reposition Right Metatarsal with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSN0Z2	Reposition Right Metatarsal, Sesamoid Bone(s) 1st Toe, Open Approach	PX	ICD-10-PCS
0QSN0ZZ	Reposition Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QSN342	Reposition Right Metatarsal, Sesamoid Bone(s) 1st Toe, with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSN34Z	Reposition Right Metatarsal with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QSN352	Reposition Right Metatarsal, Sesamoid Bone(s) 1st Toe, with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSN35Z	Reposition Right Metatarsal with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSN442	Reposition Right Metatarsal, Sesamoid Bone(s) 1st Toe, with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSN44Z	Reposition Right Metatarsal with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSN452	Reposition Right Metatarsal, Sesamoid Bone(s) 1st Toe, with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSN45Z	Reposition Right Metatarsal with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSN4Z2	Reposition Right Metatarsal, Sesamoid Bone(s) 1st Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSN4ZZ	Reposition Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSP042	Reposition Left Metatarsal, Sesamoid Bone(s) 1st Toe, with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSP04Z	Reposition Left Metatarsal with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSP052	Reposition Left Metatarsal, Sesamoid Bone(s) 1st Toe, with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSP05Z	Reposition Left Metatarsal with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSP0Z2	Reposition Left Metatarsal, Sesamoid Bone(s) 1st Toe, Open Approach	PX	ICD-10-PCS
0QSP0ZZ	Reposition Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QSP342	Reposition Left Metatarsal, Sesamoid Bone(s) 1st Toe, with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSP34Z	Reposition Left Metatarsal with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSP352	Reposition Left Metatarsal, Sesamoid Bone(s) 1st Toe, with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSP35Z	Reposition Left Metatarsal with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSP442	Reposition Left Metatarsal, Sesamoid Bone(s) 1st Toe, with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSP44Z	Reposition Left Metatarsal with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSP452	Reposition Left Metatarsal, Sesamoid Bone(s) 1st Toe, with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSP45Z	Reposition Left Metatarsal with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSP4Z2	Reposition Left Metatarsal, Sesamoid Bone(s) 1st Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSP4ZZ	Reposition Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSQ04Z	Reposition Right Toe Phalanx with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSQ05Z	Reposition Right Toe Phalanx with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSQ0ZZ	Reposition Right Toe Phalanx, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QSQ34Z	Reposition Right Toe Phalanx with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSQ35Z	Reposition Right Toe Phalanx with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSQ44Z	Reposition Right Toe Phalanx with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSQ45Z	Reposition Right Toe Phalanx with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSQ4ZZ	Reposition Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSR04Z	Reposition Left Toe Phalanx with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSR05Z	Reposition Left Toe Phalanx with External Fixation Device, Open Approach	PX	ICD-10-PCS
0QSR0ZZ	Reposition Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QSR34Z	Reposition Left Toe Phalanx with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSR35Z	Reposition Left Toe Phalanx with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSR44Z	Reposition Left Toe Phalanx with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSR45Z	Reposition Left Toe Phalanx with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSR4ZZ	Reposition Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSS04Z	Reposition Coccyx with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0QSS0ZZ	Reposition Coccyx, Open Approach	PX	ICD-10-PCS
0QSS34Z	Reposition Coccyx with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0QSS3ZZ	Reposition Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QSS44Z	Reposition Coccyx with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QSS4ZZ	Reposition Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QT20ZZ	Resection of Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QT30ZZ	Resection of Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QT40ZZ	Resection of Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QT50ZZ	Resection of Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QT60ZZ	Resection of Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QT70ZZ	Resection of Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QT80ZZ	Resection of Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QT90ZZ	Resection of Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QTB0ZZ	Resection of Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QTC0ZZ	Resection of Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QTD0ZZ	Resection of Right Patella, Open Approach	PX	ICD-10-PCS
0QTF0ZZ	Resection of Left Patella, Open Approach	PX	ICD-10-PCS
0QTG0ZZ	Resection of Right Tibia, Open Approach	PX	ICD-10-PCS
0QTH0ZZ	Resection of Left Tibia, Open Approach	PX	ICD-10-PCS
0QTJ0ZZ	Resection of Right Fibula, Open Approach	PX	ICD-10-PCS
0QTK0ZZ	Resection of Left Fibula, Open Approach	PX	ICD-10-PCS
0QTL0ZZ	Resection of Right Tarsal, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QTM0ZZ	Resection of Left Tarsal, Open Approach	PX	ICD-10-PCS
0QTN0ZZ	Resection of Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QTP0ZZ	Resection of Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QTQ0ZZ	Resection of Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QTR0ZZ	Resection of Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QTS0ZZ	Resection of Coccyx, Open Approach	PX	ICD-10-PCS
0QU007Z	Supplement Lumbar Vertebra with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU00JZ	Supplement Lumbar Vertebra with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QU00KZ	Supplement Lumbar Vertebra with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU037Z	Supplement Lumbar Vertebra with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU03JZ	Supplement Lumbar Vertebra with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU03KZ	Supplement Lumbar Vertebra with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU047Z	Supplement Lumbar Vertebra with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU04JZ	Supplement Lumbar Vertebra with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU04KZ	Supplement Lumbar Vertebra with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU107Z	Supplement Sacrum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU10JZ	Supplement Sacrum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QU10KZ	Supplement Sacrum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU137Z	Supplement Sacrum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU13JZ	Supplement Sacrum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU13KZ	Supplement Sacrum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU147Z	Supplement Sacrum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU14JZ	Supplement Sacrum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU14KZ	Supplement Sacrum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU207Z	Supplement Right Pelvic Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU20JZ	Supplement Right Pelvic Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QU20KZ	Supplement Right Pelvic Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU237Z	Supplement Right Pelvic Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU23JZ	Supplement Right Pelvic Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QU23KZ	Supplement Right Pelvic Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU247Z	Supplement Right Pelvic Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU24JZ	Supplement Right Pelvic Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU24KZ	Supplement Right Pelvic Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU307Z	Supplement Left Pelvic Bone with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU30JZ	Supplement Left Pelvic Bone with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QU30KZ	Supplement Left Pelvic Bone with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU337Z	Supplement Left Pelvic Bone with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU33JZ	Supplement Left Pelvic Bone with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU33KZ	Supplement Left Pelvic Bone with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU347Z	Supplement Left Pelvic Bone with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU34JZ	Supplement Left Pelvic Bone with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU34KZ	Supplement Left Pelvic Bone with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU407Z	Supplement Right Acetabulum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU40JZ	Supplement Right Acetabulum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QU40KZ	Supplement Right Acetabulum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU437Z	Supplement Right Acetabulum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU43JZ	Supplement Right Acetabulum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU43KZ	Supplement Right Acetabulum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU447Z	Supplement Right Acetabulum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU44JZ	Supplement Right Acetabulum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU44KZ	Supplement Right Acetabulum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU507Z	Supplement Left Acetabulum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU50JZ	Supplement Left Acetabulum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QU50KZ	Supplement Left Acetabulum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QU537Z	Supplement Left Acetabulum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU53JZ	Supplement Left Acetabulum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU53KZ	Supplement Left Acetabulum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU547Z	Supplement Left Acetabulum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU54JZ	Supplement Left Acetabulum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU54KZ	Supplement Left Acetabulum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU607Z	Supplement Right Upper Femur with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU60JZ	Supplement Right Upper Femur with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QU60KZ	Supplement Right Upper Femur with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU637Z	Supplement Right Upper Femur with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU63JZ	Supplement Right Upper Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU63KZ	Supplement Right Upper Femur with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU647Z	Supplement Right Upper Femur with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU64JZ	Supplement Right Upper Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU64KZ	Supplement Right Upper Femur with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU707Z	Supplement Left Upper Femur with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU70JZ	Supplement Left Upper Femur with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QU70KZ	Supplement Left Upper Femur with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU737Z	Supplement Left Upper Femur with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU73JZ	Supplement Left Upper Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU73KZ	Supplement Left Upper Femur with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU747Z	Supplement Left Upper Femur with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU74JZ	Supplement Left Upper Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU74KZ	Supplement Left Upper Femur with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QU807Z	Supplement Right Femoral Shaft with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU80JZ	Supplement Right Femoral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QU80KZ	Supplement Right Femoral Shaft with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU837Z	Supplement Right Femoral Shaft with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU83JZ	Supplement Right Femoral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU83KZ	Supplement Right Femoral Shaft with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU847Z	Supplement Right Femoral Shaft with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU84JZ	Supplement Right Femoral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU84KZ	Supplement Right Femoral Shaft with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU907Z	Supplement Left Femoral Shaft with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU90JZ	Supplement Left Femoral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QU90KZ	Supplement Left Femoral Shaft with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QU937Z	Supplement Left Femoral Shaft with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU93JZ	Supplement Left Femoral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU93KZ	Supplement Left Femoral Shaft with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QU947Z	Supplement Left Femoral Shaft with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU94JZ	Supplement Left Femoral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QU94KZ	Supplement Left Femoral Shaft with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUB07Z	Supplement Right Lower Femur with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUB0JZ	Supplement Right Lower Femur with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUB0KZ	Supplement Right Lower Femur with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUB37Z	Supplement Right Lower Femur with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUB3JZ	Supplement Right Lower Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUB3KZ	Supplement Right Lower Femur with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QUB47Z	Supplement Right Lower Femur with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUB4JZ	Supplement Right Lower Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUB4KZ	Supplement Right Lower Femur with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUC07Z	Supplement Left Lower Femur with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUC0JZ	Supplement Left Lower Femur with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUC0KZ	Supplement Left Lower Femur with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUC37Z	Supplement Left Lower Femur with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUC3JZ	Supplement Left Lower Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUC3KZ	Supplement Left Lower Femur with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUC47Z	Supplement Left Lower Femur with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUC4JZ	Supplement Left Lower Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUC4KZ	Supplement Left Lower Femur with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUD07Z	Supplement Right Patella with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUD0JZ	Supplement Right Patella with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUD0KZ	Supplement Right Patella with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUD37Z	Supplement Right Patella with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUD3JZ	Supplement Right Patella with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUD3KZ	Supplement Right Patella with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUD47Z	Supplement Right Patella with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUD4JZ	Supplement Right Patella with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUD4KZ	Supplement Right Patella with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUF07Z	Supplement Left Patella with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUF0JZ	Supplement Left Patella with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUF0KZ	Supplement Left Patella with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUF37Z	Supplement Left Patella with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUF3JZ	Supplement Left Patella with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QUF3KZ	Supplement Left Patella with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUF47Z	Supplement Left Patella with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUF4JZ	Supplement Left Patella with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUF4KZ	Supplement Left Patella with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUG07Z	Supplement Right Tibia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUG0JZ	Supplement Right Tibia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUG0KZ	Supplement Right Tibia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUG37Z	Supplement Right Tibia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUG3JZ	Supplement Right Tibia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUG3KZ	Supplement Right Tibia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUG47Z	Supplement Right Tibia with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUG4JZ	Supplement Right Tibia with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUG4KZ	Supplement Right Tibia with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUH07Z	Supplement Left Tibia with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUH0JZ	Supplement Left Tibia with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUH0KZ	Supplement Left Tibia with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUH37Z	Supplement Left Tibia with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUH3JZ	Supplement Left Tibia with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUH3KZ	Supplement Left Tibia with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUH47Z	Supplement Left Tibia with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUH4JZ	Supplement Left Tibia with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUH4KZ	Supplement Left Tibia with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUJ07Z	Supplement Right Fibula with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUJ0JZ	Supplement Right Fibula with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUJ0KZ	Supplement Right Fibula with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUJ37Z	Supplement Right Fibula with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUJ3JZ	Supplement Right Fibula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUJ3KZ	Supplement Right Fibula with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QUJ47Z	Supplement Right Fibula with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUJ4JZ	Supplement Right Fibula with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUJ4KZ	Supplement Right Fibula with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUK07Z	Supplement Left Fibula with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUK0JZ	Supplement Left Fibula with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUK0KZ	Supplement Left Fibula with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUK37Z	Supplement Left Fibula with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUK3JZ	Supplement Left Fibula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUK3KZ	Supplement Left Fibula with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUK47Z	Supplement Left Fibula with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUK4JZ	Supplement Left Fibula with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUK4KZ	Supplement Left Fibula with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUL07Z	Supplement Right Tarsal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUL0JZ	Supplement Right Tarsal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUL0KZ	Supplement Right Tarsal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUL37Z	Supplement Right Tarsal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUL3JZ	Supplement Right Tarsal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUL3KZ	Supplement Right Tarsal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUL47Z	Supplement Right Tarsal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUL4JZ	Supplement Right Tarsal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUL4KZ	Supplement Right Tarsal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUM07Z	Supplement Left Tarsal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUM0JZ	Supplement Left Tarsal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUM0KZ	Supplement Left Tarsal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUM37Z	Supplement Left Tarsal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUM3JZ	Supplement Left Tarsal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUM3KZ	Supplement Left Tarsal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUM47Z	Supplement Left Tarsal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0QUM4JZ	Supplement Left Tarsal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUM4KZ	Supplement Left Tarsal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUN07Z	Supplement Right Metatarsal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUN0JZ	Supplement Right Metatarsal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUN0KZ	Supplement Right Metatarsal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUN37Z	Supplement Right Metatarsal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUN3JZ	Supplement Right Metatarsal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUN3KZ	Supplement Right Metatarsal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUN47Z	Supplement Right Metatarsal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUN4JZ	Supplement Right Metatarsal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUN4KZ	Supplement Right Metatarsal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUP07Z	Supplement Left Metatarsal with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUP0JZ	Supplement Left Metatarsal with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUP0KZ	Supplement Left Metatarsal with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUP37Z	Supplement Left Metatarsal with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUP3JZ	Supplement Left Metatarsal with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUP3KZ	Supplement Left Metatarsal with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUP47Z	Supplement Left Metatarsal with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUP4JZ	Supplement Left Metatarsal with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUP4KZ	Supplement Left Metatarsal with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUQ07Z	Supplement Right Toe Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUQ0JZ	Supplement Right Toe Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUQ0KZ	Supplement Right Toe Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUQ37Z	Supplement Right Toe Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUQ3JZ	Supplement Right Toe Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QUQ3KZ	Supplement Right Toe Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUQ47Z	Supplement Right Toe Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUQ4JZ	Supplement Right Toe Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUQ4KZ	Supplement Right Toe Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUR07Z	Supplement Left Toe Phalanx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUR0JZ	Supplement Left Toe Phalanx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUR0KZ	Supplement Left Toe Phalanx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUR37Z	Supplement Left Toe Phalanx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUR3JZ	Supplement Left Toe Phalanx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUR3KZ	Supplement Left Toe Phalanx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUR47Z	Supplement Left Toe Phalanx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUR4JZ	Supplement Left Toe Phalanx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUR4KZ	Supplement Left Toe Phalanx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUS07Z	Supplement Coccyx with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUS0JZ	Supplement Coccyx with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0QUS0KZ	Supplement Coccyx with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0QUS37Z	Supplement Coccyx with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUS3JZ	Supplement Coccyx with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUS3KZ	Supplement Coccyx with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0QUS47Z	Supplement Coccyx with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUS4JZ	Supplement Coccyx with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QUS4KZ	Supplement Coccyx with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW004Z	Revision of Internal Fixation Device in Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QW007Z	Revision of Autologous Tissue Substitute in Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QW00JZ	Revision of Synthetic Substitute in Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QW00KZ	Revision of Nonautologous Tissue Substitute in Lumbar Vertebra, Open Approach	PX	ICD-10-PCS
0QW034Z	Revision of Internal Fixation Device in Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QW037Z	Revision of Autologous Tissue Substitute in Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QW03JZ	Revision of Synthetic Substitute in Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QW03KZ	Revision of Nonautologous Tissue Substitute in Lumbar Vertebra, Percutaneous Approach	PX	ICD-10-PCS
0QW044Z	Revision of Internal Fixation Device in Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW047Z	Revision of Autologous Tissue Substitute in Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW04JZ	Revision of Synthetic Substitute in Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW04KZ	Revision of Nonautologous Tissue Substitute in Lumbar Vertebra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW104Z	Revision of Internal Fixation Device in Sacrum, Open Approach	PX	ICD-10-PCS
0QW107Z	Revision of Autologous Tissue Substitute in Sacrum, Open Approach	PX	ICD-10-PCS
0QW10JZ	Revision of Synthetic Substitute in Sacrum, Open Approach	PX	ICD-10-PCS
0QW10KZ	Revision of Nonautologous Tissue Substitute in Sacrum, Open Approach	PX	ICD-10-PCS
0QW134Z	Revision of Internal Fixation Device in Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QW137Z	Revision of Autologous Tissue Substitute in Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QW13JZ	Revision of Synthetic Substitute in Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QW13KZ	Revision of Nonautologous Tissue Substitute in Sacrum, Percutaneous Approach	PX	ICD-10-PCS
0QW144Z	Revision of Internal Fixation Device in Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW147Z	Revision of Autologous Tissue Substitute in Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW14JZ	Revision of Synthetic Substitute in Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW14KZ	Revision of Nonautologous Tissue Substitute in Sacrum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW204Z	Revision of Internal Fixation Device in Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QW205Z	Revision of External Fixation Device in Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QW207Z	Revision of Autologous Tissue Substitute in Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QW20JZ	Revision of Synthetic Substitute in Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QW20KZ	Revision of Nonautologous Tissue Substitute in Right Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QW234Z	Revision of Internal Fixation Device in Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QW235Z	Revision of External Fixation Device in Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QW237Z	Revision of Autologous Tissue Substitute in Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QW23JZ	Revision of Synthetic Substitute in Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QW23KZ	Revision of Nonautologous Tissue Substitute in Right Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QW244Z	Revision of Internal Fixation Device in Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW245Z	Revision of External Fixation Device in Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QW247Z	Revision of Autologous Tissue Substitute in Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW24JZ	Revision of Synthetic Substitute in Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW24KZ	Revision of Nonautologous Tissue Substitute in Right Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW304Z	Revision of Internal Fixation Device in Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QW305Z	Revision of External Fixation Device in Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QW307Z	Revision of Autologous Tissue Substitute in Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QW30JZ	Revision of Synthetic Substitute in Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QW30KZ	Revision of Nonautologous Tissue Substitute in Left Pelvic Bone, Open Approach	PX	ICD-10-PCS
0QW334Z	Revision of Internal Fixation Device in Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QW335Z	Revision of External Fixation Device in Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QW337Z	Revision of Autologous Tissue Substitute in Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QW33JZ	Revision of Synthetic Substitute in Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QW33KZ	Revision of Nonautologous Tissue Substitute in Left Pelvic Bone, Percutaneous Approach	PX	ICD-10-PCS
0QW344Z	Revision of Internal Fixation Device in Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW345Z	Revision of External Fixation Device in Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW347Z	Revision of Autologous Tissue Substitute in Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW34JZ	Revision of Synthetic Substitute in Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW34KZ	Revision of Nonautologous Tissue Substitute in Left Pelvic Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW404Z	Revision of Internal Fixation Device in Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QW407Z	Revision of Autologous Tissue Substitute in Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QW40JZ	Revision of Synthetic Substitute in Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QW40KZ	Revision of Nonautologous Tissue Substitute in Right Acetabulum, Open Approach	PX	ICD-10-PCS
0QW434Z	Revision of Internal Fixation Device in Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QW437Z	Revision of Autologous Tissue Substitute in Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QW43JZ	Revision of Synthetic Substitute in Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QW43KZ	Revision of Nonautologous Tissue Substitute in Right Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QW444Z	Revision of Internal Fixation Device in Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW447Z	Revision of Autologous Tissue Substitute in Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QW44JZ	Revision of Synthetic Substitute in Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW44KZ	Revision of Nonautologous Tissue Substitute in Right Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW504Z	Revision of Internal Fixation Device in Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QW507Z	Revision of Autologous Tissue Substitute in Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QW50JZ	Revision of Synthetic Substitute in Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QW50KZ	Revision of Nonautologous Tissue Substitute in Left Acetabulum, Open Approach	PX	ICD-10-PCS
0QW534Z	Revision of Internal Fixation Device in Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QW537Z	Revision of Autologous Tissue Substitute in Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QW53JZ	Revision of Synthetic Substitute in Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QW53KZ	Revision of Nonautologous Tissue Substitute in Left Acetabulum, Percutaneous Approach	PX	ICD-10-PCS
0QW544Z	Revision of Internal Fixation Device in Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW547Z	Revision of Autologous Tissue Substitute in Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW54JZ	Revision of Synthetic Substitute in Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW54KZ	Revision of Nonautologous Tissue Substitute in Left Acetabulum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW604Z	Revision of Internal Fixation Device in Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QW605Z	Revision of External Fixation Device in Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QW607Z	Revision of Autologous Tissue Substitute in Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QW60JZ	Revision of Synthetic Substitute in Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QW60KZ	Revision of Nonautologous Tissue Substitute in Right Upper Femur, Open Approach	PX	ICD-10-PCS
0QW634Z	Revision of Internal Fixation Device in Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QW635Z	Revision of External Fixation Device in Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QW637Z	Revision of Autologous Tissue Substitute in Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QW63JZ	Revision of Synthetic Substitute in Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QW63KZ	Revision of Nonautologous Tissue Substitute in Right Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QW644Z	Revision of Internal Fixation Device in Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW645Z	Revision of External Fixation Device in Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW647Z	Revision of Autologous Tissue Substitute in Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QW64JZ	Revision of Synthetic Substitute in Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW64KZ	Revision of Nonautologous Tissue Substitute in Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW704Z	Revision of Internal Fixation Device in Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QW705Z	Revision of External Fixation Device in Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QW707Z	Revision of Autologous Tissue Substitute in Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QW70JZ	Revision of Synthetic Substitute in Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QW70KZ	Revision of Nonautologous Tissue Substitute in Left Upper Femur, Open Approach	PX	ICD-10-PCS
0QW734Z	Revision of Internal Fixation Device in Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QW735Z	Revision of External Fixation Device in Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QW737Z	Revision of Autologous Tissue Substitute in Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QW73JZ	Revision of Synthetic Substitute in Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QW73KZ	Revision of Nonautologous Tissue Substitute in Left Upper Femur, Percutaneous Approach	PX	ICD-10-PCS
0QW744Z	Revision of Internal Fixation Device in Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW745Z	Revision of External Fixation Device in Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW747Z	Revision of Autologous Tissue Substitute in Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW74JZ	Revision of Synthetic Substitute in Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW74KZ	Revision of Nonautologous Tissue Substitute in Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW804Z	Revision of Internal Fixation Device in Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QW805Z	Revision of External Fixation Device in Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QW807Z	Revision of Autologous Tissue Substitute in Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QW80JZ	Revision of Synthetic Substitute in Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QW80KZ	Revision of Nonautologous Tissue Substitute in Right Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QW834Z	Revision of Internal Fixation Device in Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QW835Z	Revision of External Fixation Device in Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QW837Z	Revision of Autologous Tissue Substitute in Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QW83JZ	Revision of Synthetic Substitute in Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QW83KZ	Revision of Nonautologous Tissue Substitute in Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QW844Z	Revision of Internal Fixation Device in Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW845Z	Revision of External Fixation Device in Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW847Z	Revision of Autologous Tissue Substitute in Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW84JZ	Revision of Synthetic Substitute in Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW84KZ	Revision of Nonautologous Tissue Substitute in Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW904Z	Revision of Internal Fixation Device in Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QW905Z	Revision of External Fixation Device in Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QW907Z	Revision of Autologous Tissue Substitute in Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QW90JZ	Revision of Synthetic Substitute in Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QW90KZ	Revision of Nonautologous Tissue Substitute in Left Femoral Shaft, Open Approach	PX	ICD-10-PCS
0QW934Z	Revision of Internal Fixation Device in Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QW935Z	Revision of External Fixation Device in Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QW937Z	Revision of Autologous Tissue Substitute in Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QW93JZ	Revision of Synthetic Substitute in Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QW93KZ	Revision of Nonautologous Tissue Substitute in Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-PCS
0QW944Z	Revision of Internal Fixation Device in Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW945Z	Revision of External Fixation Device in Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW947Z	Revision of Autologous Tissue Substitute in Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW94JZ	Revision of Synthetic Substitute in Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QW94KZ	Revision of Nonautologous Tissue Substitute in Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWB04Z	Revision of Internal Fixation Device in Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QWB05Z	Revision of External Fixation Device in Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QWB07Z	Revision of Autologous Tissue Substitute in Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QWB0JZ	Revision of Synthetic Substitute in Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QWB0KZ	Revision of Nonautologous Tissue Substitute in Right Lower Femur, Open Approach	PX	ICD-10-PCS
0QWB34Z	Revision of Internal Fixation Device in Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QWB35Z	Revision of External Fixation Device in Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QWB37Z	Revision of Autologous Tissue Substitute in Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QWB3JZ	Revision of Synthetic Substitute in Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QWB3KZ	Revision of Nonautologous Tissue Substitute in Right Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QWB44Z	Revision of Internal Fixation Device in Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWB45Z	Revision of External Fixation Device in Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWB47Z	Revision of Autologous Tissue Substitute in Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWB4JZ	Revision of Synthetic Substitute in Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWB4KZ	Revision of Nonautologous Tissue Substitute in Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWC04Z	Revision of Internal Fixation Device in Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QWC05Z	Revision of External Fixation Device in Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QWC07Z	Revision of Autologous Tissue Substitute in Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QWC0JZ	Revision of Synthetic Substitute in Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QWC0KZ	Revision of Nonautologous Tissue Substitute in Left Lower Femur, Open Approach	PX	ICD-10-PCS
0QWC34Z	Revision of Internal Fixation Device in Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QWC35Z	Revision of External Fixation Device in Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QWC37Z	Revision of Autologous Tissue Substitute in Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QWC3JZ	Revision of Synthetic Substitute in Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QWC3KZ	Revision of Nonautologous Tissue Substitute in Left Lower Femur, Percutaneous Approach	PX	ICD-10-PCS
0QWC44Z	Revision of Internal Fixation Device in Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWC45Z	Revision of External Fixation Device in Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWC47Z	Revision of Autologous Tissue Substitute in Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWC4JZ	Revision of Synthetic Substitute in Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWC4KZ	Revision of Nonautologous Tissue Substitute in Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWD04Z	Revision of Internal Fixation Device in Right Patella, Open Approach	PX	ICD-10-PCS
0QWD05Z	Revision of External Fixation Device in Right Patella, Open Approach	PX	ICD-10-PCS
0QWD07Z	Revision of Autologous Tissue Substitute in Right Patella, Open Approach	PX	ICD-10-PCS
0QWD0JZ	Revision of Synthetic Substitute in Right Patella, Open Approach	PX	ICD-10-PCS
0QWD0KZ	Revision of Nonautologous Tissue Substitute in Right Patella, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QWD34Z	Revision of Internal Fixation Device in Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QWD35Z	Revision of External Fixation Device in Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QWD37Z	Revision of Autologous Tissue Substitute in Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QWD3JZ	Revision of Synthetic Substitute in Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QWD3KZ	Revision of Nonautologous Tissue Substitute in Right Patella, Percutaneous Approach	PX	ICD-10-PCS
0QWD44Z	Revision of Internal Fixation Device in Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWD45Z	Revision of External Fixation Device in Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWD47Z	Revision of Autologous Tissue Substitute in Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWD4JZ	Revision of Synthetic Substitute in Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWD4KZ	Revision of Nonautologous Tissue Substitute in Right Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWF04Z	Revision of Internal Fixation Device in Left Patella, Open Approach	PX	ICD-10-PCS
0QWF05Z	Revision of External Fixation Device in Left Patella, Open Approach	PX	ICD-10-PCS
0QWF07Z	Revision of Autologous Tissue Substitute in Left Patella, Open Approach	PX	ICD-10-PCS
0QWF0JZ	Revision of Synthetic Substitute in Left Patella, Open Approach	PX	ICD-10-PCS
0QWF0KZ	Revision of Nonautologous Tissue Substitute in Left Patella, Open Approach	PX	ICD-10-PCS
0QWF34Z	Revision of Internal Fixation Device in Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QWF35Z	Revision of External Fixation Device in Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QWF37Z	Revision of Autologous Tissue Substitute in Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QWF3JZ	Revision of Synthetic Substitute in Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QWF3KZ	Revision of Nonautologous Tissue Substitute in Left Patella, Percutaneous Approach	PX	ICD-10-PCS
0QWF44Z	Revision of Internal Fixation Device in Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWF45Z	Revision of External Fixation Device in Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWF47Z	Revision of Autologous Tissue Substitute in Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWF4JZ	Revision of Synthetic Substitute in Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWF4KZ	Revision of Nonautologous Tissue Substitute in Left Patella, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWG04Z	Revision of Internal Fixation Device in Right Tibia, Open Approach	PX	ICD-10-PCS
0QWG05Z	Revision of External Fixation Device in Right Tibia, Open Approach	PX	ICD-10-PCS
0QWG07Z	Revision of Autologous Tissue Substitute in Right Tibia, Open Approach	PX	ICD-10-PCS
0QWG0JZ	Revision of Synthetic Substitute in Right Tibia, Open Approach	PX	ICD-10-PCS
0QWG0KZ	Revision of Nonautologous Tissue Substitute in Right Tibia, Open Approach	PX	ICD-10-PCS
0QWG34Z	Revision of Internal Fixation Device in Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QWG35Z	Revision of External Fixation Device in Right Tibia, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QWG37Z	Revision of Autologous Tissue Substitute in Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QWG3JZ	Revision of Synthetic Substitute in Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QWG3KZ	Revision of Nonautologous Tissue Substitute in Right Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QWG44Z	Revision of Internal Fixation Device in Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWG45Z	Revision of External Fixation Device in Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWG47Z	Revision of Autologous Tissue Substitute in Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWG4JZ	Revision of Synthetic Substitute in Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWG4KZ	Revision of Nonautologous Tissue Substitute in Right Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWH04Z	Revision of Internal Fixation Device in Left Tibia, Open Approach	PX	ICD-10-PCS
0QWH05Z	Revision of External Fixation Device in Left Tibia, Open Approach	PX	ICD-10-PCS
0QWH07Z	Revision of Autologous Tissue Substitute in Left Tibia, Open Approach	PX	ICD-10-PCS
0QWH0JZ	Revision of Synthetic Substitute in Left Tibia, Open Approach	PX	ICD-10-PCS
0QWH0KZ	Revision of Nonautologous Tissue Substitute in Left Tibia, Open Approach	PX	ICD-10-PCS
0QWH34Z	Revision of Internal Fixation Device in Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QWH35Z	Revision of External Fixation Device in Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QWH37Z	Revision of Autologous Tissue Substitute in Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QWH3JZ	Revision of Synthetic Substitute in Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QWH3KZ	Revision of Nonautologous Tissue Substitute in Left Tibia, Percutaneous Approach	PX	ICD-10-PCS
0QWH44Z	Revision of Internal Fixation Device in Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWH45Z	Revision of External Fixation Device in Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWH47Z	Revision of Autologous Tissue Substitute in Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWH4JZ	Revision of Synthetic Substitute in Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWH4KZ	Revision of Nonautologous Tissue Substitute in Left Tibia, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWJ04Z	Revision of Internal Fixation Device in Right Fibula, Open Approach	PX	ICD-10-PCS
0QWJ05Z	Revision of External Fixation Device in Right Fibula, Open Approach	PX	ICD-10-PCS
0QWJ07Z	Revision of Autologous Tissue Substitute in Right Fibula, Open Approach	PX	ICD-10-PCS
0QWJ0JZ	Revision of Synthetic Substitute in Right Fibula, Open Approach	PX	ICD-10-PCS
0QWJ0KZ	Revision of Nonautologous Tissue Substitute in Right Fibula, Open Approach	PX	ICD-10-PCS
0QWJ34Z	Revision of Internal Fixation Device in Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QWJ35Z	Revision of External Fixation Device in Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QWJ37Z	Revision of Autologous Tissue Substitute in Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QWJ3JZ	Revision of Synthetic Substitute in Right Fibula, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QWJ3KZ	Revision of Nonautologous Tissue Substitute in Right Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QWJ44Z	Revision of Internal Fixation Device in Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWJ45Z	Revision of External Fixation Device in Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWJ47Z	Revision of Autologous Tissue Substitute in Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWJ4JZ	Revision of Synthetic Substitute in Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWJ4KZ	Revision of Nonautologous Tissue Substitute in Right Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWK04Z	Revision of Internal Fixation Device in Left Fibula, Open Approach	PX	ICD-10-PCS
0QWK05Z	Revision of External Fixation Device in Left Fibula, Open Approach	PX	ICD-10-PCS
0QWK07Z	Revision of Autologous Tissue Substitute in Left Fibula, Open Approach	PX	ICD-10-PCS
0QWK0JZ	Revision of Synthetic Substitute in Left Fibula, Open Approach	PX	ICD-10-PCS
0QWK0KZ	Revision of Nonautologous Tissue Substitute in Left Fibula, Open Approach	PX	ICD-10-PCS
0QWK34Z	Revision of Internal Fixation Device in Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QWK35Z	Revision of External Fixation Device in Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QWK37Z	Revision of Autologous Tissue Substitute in Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QWK3JZ	Revision of Synthetic Substitute in Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QWK3KZ	Revision of Nonautologous Tissue Substitute in Left Fibula, Percutaneous Approach	PX	ICD-10-PCS
0QWK44Z	Revision of Internal Fixation Device in Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWK45Z	Revision of External Fixation Device in Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWK47Z	Revision of Autologous Tissue Substitute in Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWK4JZ	Revision of Synthetic Substitute in Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWK4KZ	Revision of Nonautologous Tissue Substitute in Left Fibula, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWL04Z	Revision of Internal Fixation Device in Right Tarsal, Open Approach	PX	ICD-10-PCS
0QWL05Z	Revision of External Fixation Device in Right Tarsal, Open Approach	PX	ICD-10-PCS
0QWL07Z	Revision of Autologous Tissue Substitute in Right Tarsal, Open Approach	PX	ICD-10-PCS
0QWL0JZ	Revision of Synthetic Substitute in Right Tarsal, Open Approach	PX	ICD-10-PCS
0QWL0KZ	Revision of Nonautologous Tissue Substitute in Right Tarsal, Open Approach	PX	ICD-10-PCS
0QWL34Z	Revision of Internal Fixation Device in Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWL35Z	Revision of External Fixation Device in Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWL37Z	Revision of Autologous Tissue Substitute in Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWL3JZ	Revision of Synthetic Substitute in Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWL3KZ	Revision of Nonautologous Tissue Substitute in Right Tarsal, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QWL44Z	Revision of Internal Fixation Device in Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWL45Z	Revision of External Fixation Device in Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWL47Z	Revision of Autologous Tissue Substitute in Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWL4JZ	Revision of Synthetic Substitute in Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWL4KZ	Revision of Nonautologous Tissue Substitute in Right Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWM04Z	Revision of Internal Fixation Device in Left Tarsal, Open Approach	PX	ICD-10-PCS
0QWM05Z	Revision of External Fixation Device in Left Tarsal, Open Approach	PX	ICD-10-PCS
0QWM07Z	Revision of Autologous Tissue Substitute in Left Tarsal, Open Approach	PX	ICD-10-PCS
0QWM0JZ	Revision of Synthetic Substitute in Left Tarsal, Open Approach	PX	ICD-10-PCS
0QWM0KZ	Revision of Nonautologous Tissue Substitute in Left Tarsal, Open Approach	PX	ICD-10-PCS
0QWM34Z	Revision of Internal Fixation Device in Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWM35Z	Revision of External Fixation Device in Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWM37Z	Revision of Autologous Tissue Substitute in Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWM3JZ	Revision of Synthetic Substitute in Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWM3KZ	Revision of Nonautologous Tissue Substitute in Left Tarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWM44Z	Revision of Internal Fixation Device in Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWM45Z	Revision of External Fixation Device in Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWM47Z	Revision of Autologous Tissue Substitute in Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWM4JZ	Revision of Synthetic Substitute in Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWM4KZ	Revision of Nonautologous Tissue Substitute in Left Tarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWN04Z	Revision of Internal Fixation Device in Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QWN05Z	Revision of External Fixation Device in Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QWN07Z	Revision of Autologous Tissue Substitute in Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QWN0JZ	Revision of Synthetic Substitute in Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QWN0KZ	Revision of Nonautologous Tissue Substitute in Right Metatarsal, Open Approach	PX	ICD-10-PCS
0QWN34Z	Revision of Internal Fixation Device in Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWN35Z	Revision of External Fixation Device in Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWN37Z	Revision of Autologous Tissue Substitute in Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWN3JZ	Revision of Synthetic Substitute in Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWN3KZ	Revision of Nonautologous Tissue Substitute in Right Metatarsal, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QWN44Z	Revision of Internal Fixation Device in Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWN45Z	Revision of External Fixation Device in Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWN47Z	Revision of Autologous Tissue Substitute in Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWN4JZ	Revision of Synthetic Substitute in Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWN4KZ	Revision of Nonautologous Tissue Substitute in Right Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWP04Z	Revision of Internal Fixation Device in Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QWP05Z	Revision of External Fixation Device in Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QWP07Z	Revision of Autologous Tissue Substitute in Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QWP0JZ	Revision of Synthetic Substitute in Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QWP0KZ	Revision of Nonautologous Tissue Substitute in Left Metatarsal, Open Approach	PX	ICD-10-PCS
0QWP34Z	Revision of Internal Fixation Device in Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWP35Z	Revision of External Fixation Device in Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWP37Z	Revision of Autologous Tissue Substitute in Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWP3JZ	Revision of Synthetic Substitute in Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWP3KZ	Revision of Nonautologous Tissue Substitute in Left Metatarsal, Percutaneous Approach	PX	ICD-10-PCS
0QWP44Z	Revision of Internal Fixation Device in Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWP45Z	Revision of External Fixation Device in Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWP47Z	Revision of Autologous Tissue Substitute in Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWP4JZ	Revision of Synthetic Substitute in Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWP4KZ	Revision of Nonautologous Tissue Substitute in Left Metatarsal, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWQ04Z	Revision of Internal Fixation Device in Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QWQ05Z	Revision of External Fixation Device in Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QWQ07Z	Revision of Autologous Tissue Substitute in Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QWQ0JZ	Revision of Synthetic Substitute in Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QWQ0KZ	Revision of Nonautologous Tissue Substitute in Right Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QWQ34Z	Revision of Internal Fixation Device in Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QWQ35Z	Revision of External Fixation Device in Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QWQ37Z	Revision of Autologous Tissue Substitute in Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QWQ3JZ	Revision of Synthetic Substitute in Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QWQ3KZ	Revision of Nonautologous Tissue Substitute in Right Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QWQ44Z	Revision of Internal Fixation Device in Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWQ45Z	Revision of External Fixation Device in Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWQ47Z	Revision of Autologous Tissue Substitute in Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWQ4JZ	Revision of Synthetic Substitute in Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWQ4KZ	Revision of Nonautologous Tissue Substitute in Right Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWR04Z	Revision of Internal Fixation Device in Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QWR05Z	Revision of External Fixation Device in Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QWR07Z	Revision of Autologous Tissue Substitute in Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QWR0JZ	Revision of Synthetic Substitute in Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QWR0KZ	Revision of Nonautologous Tissue Substitute in Left Toe Phalanx, Open Approach	PX	ICD-10-PCS
0QWR34Z	Revision of Internal Fixation Device in Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QWR35Z	Revision of External Fixation Device in Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QWR37Z	Revision of Autologous Tissue Substitute in Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QWR3JZ	Revision of Synthetic Substitute in Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QWR3KZ	Revision of Nonautologous Tissue Substitute in Left Toe Phalanx, Percutaneous Approach	PX	ICD-10-PCS
0QWR44Z	Revision of Internal Fixation Device in Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWR45Z	Revision of External Fixation Device in Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWR47Z	Revision of Autologous Tissue Substitute in Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWR4JZ	Revision of Synthetic Substitute in Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWR4KZ	Revision of Nonautologous Tissue Substitute in Left Toe Phalanx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWS04Z	Revision of Internal Fixation Device in Coccyx, Open Approach	PX	ICD-10-PCS
0QWS07Z	Revision of Autologous Tissue Substitute in Coccyx, Open Approach	PX	ICD-10-PCS
0QWS0JZ	Revision of Synthetic Substitute in Coccyx, Open Approach	PX	ICD-10-PCS
0QWS0KZ	Revision of Nonautologous Tissue Substitute in Coccyx, Open Approach	PX	ICD-10-PCS
0QWS34Z	Revision of Internal Fixation Device in Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QWS37Z	Revision of Autologous Tissue Substitute in Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QWS3JZ	Revision of Synthetic Substitute in Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QWS3KZ	Revision of Nonautologous Tissue Substitute in Coccyx, Percutaneous Approach	PX	ICD-10-PCS
0QWS44Z	Revision of Internal Fixation Device in Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0QWS47Z	Revision of Autologous Tissue Substitute in Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWS4JZ	Revision of Synthetic Substitute in Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWS4KZ	Revision of Nonautologous Tissue Substitute in Coccyx, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWY00Z	Revision of Drainage Device in Lower Bone, Open Approach	PX	ICD-10-PCS
0QWY0MZ	Revision of Bone Growth Stimulator in Lower Bone, Open Approach	PX	ICD-10-PCS
0QWY30Z	Revision of Drainage Device in Lower Bone, Percutaneous Approach	PX	ICD-10-PCS
0QWY3MZ	Revision of Bone Growth Stimulator in Lower Bone, Percutaneous Approach	PX	ICD-10-PCS
0QWY40Z	Revision of Drainage Device in Lower Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0QWY4MZ	Revision of Bone Growth Stimulator in Lower Bone, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R500ZZ	Destruction of Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0R503ZZ	Destruction of Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0R504ZZ	Destruction of Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R510ZZ	Destruction of Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0R513ZZ	Destruction of Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0R514ZZ	Destruction of Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R530ZZ	Destruction of Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0R534ZZ	Destruction of Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R540ZZ	Destruction of Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0R543ZZ	Destruction of Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0R544ZZ	Destruction of Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R550ZZ	Destruction of Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0R554ZZ	Destruction of Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R560ZZ	Destruction of Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0R563ZZ	Destruction of Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0R564ZZ	Destruction of Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R590ZZ	Destruction of Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0R594ZZ	Destruction of Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5A0ZZ	Destruction of Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0R5A3ZZ	Destruction of Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5A4ZZ	Destruction of Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5B0ZZ	Destruction of Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0R5B4ZZ	Destruction of Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5C0ZZ	Destruction of Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0R5C3ZZ	Destruction of Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5C4ZZ	Destruction of Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5D0ZZ	Destruction of Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0R5D3ZZ	Destruction of Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0R5D4ZZ	Destruction of Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5E0ZZ	Destruction of Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0R5E3ZZ	Destruction of Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5E4ZZ	Destruction of Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5F0ZZ	Destruction of Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0R5F3ZZ	Destruction of Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5F4ZZ	Destruction of Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5G0ZZ	Destruction of Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0R5G3ZZ	Destruction of Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5G4ZZ	Destruction of Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5H0ZZ	Destruction of Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0R5H3ZZ	Destruction of Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5H4ZZ	Destruction of Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5J0ZZ	Destruction of Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0R5J3ZZ	Destruction of Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5J4ZZ	Destruction of Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5K0ZZ	Destruction of Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0R5K3ZZ	Destruction of Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5K4ZZ	Destruction of Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5L0ZZ	Destruction of Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0R5L3ZZ	Destruction of Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5L4ZZ	Destruction of Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5M0ZZ	Destruction of Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0R5M3ZZ	Destruction of Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5M4ZZ	Destruction of Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5N0ZZ	Destruction of Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0R5N3ZZ	Destruction of Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5N4ZZ	Destruction of Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5P0ZZ	Destruction of Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0R5P3ZZ	Destruction of Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5P4ZZ	Destruction of Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5Q0ZZ	Destruction of Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0R5Q3ZZ	Destruction of Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5Q4ZZ	Destruction of Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5R0ZZ	Destruction of Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0R5R3ZZ	Destruction of Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5R4ZZ	Destruction of Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5S0ZZ	Destruction of Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0R5S3ZZ	Destruction of Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5S4ZZ	Destruction of Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5T0ZZ	Destruction of Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0R5T3ZZ	Destruction of Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5T4ZZ	Destruction of Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0R5U0ZZ	Destruction of Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0R5U3ZZ	Destruction of Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5U4ZZ	Destruction of Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5V0ZZ	Destruction of Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0R5V3ZZ	Destruction of Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5V4ZZ	Destruction of Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5W0ZZ	Destruction of Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0R5W3ZZ	Destruction of Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5W4ZZ	Destruction of Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R5X0ZZ	Destruction of Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0R5X3ZZ	Destruction of Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0R5X4ZZ	Destruction of Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9000Z	Drainage of Occipital-cervical Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R900ZZ	Drainage of Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0R9040Z	Drainage of Occipital-cervical Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R904ZZ	Drainage of Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9100Z	Drainage of Cervical Vertebral Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R910ZZ	Drainage of Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0R9140Z	Drainage of Cervical Vertebral Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R914ZZ	Drainage of Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9300Z	Drainage of Cervical Vertebral Disc with Drainage Device, Open Approach	PX	ICD-10-PCS
0R930ZZ	Drainage of Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0R9340Z	Drainage of Cervical Vertebral Disc with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R934ZZ	Drainage of Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9400Z	Drainage of Cervicothoracic Vertebral Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R940ZZ	Drainage of Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0R9440Z	Drainage of Cervicothoracic Vertebral Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R944ZZ	Drainage of Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9500Z	Drainage of Cervicothoracic Vertebral Disc with Drainage Device, Open Approach	PX	ICD-10-PCS
0R950ZZ	Drainage of Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0R9540Z	Drainage of Cervicothoracic Vertebral Disc with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R954ZZ	Drainage of Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9600Z	Drainage of Thoracic Vertebral Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R960ZZ	Drainage of Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0R9640Z	Drainage of Thoracic Vertebral Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0R964ZZ	Drainage of Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9900Z	Drainage of Thoracic Vertebral Disc with Drainage Device, Open Approach	PX	ICD-10-PCS
0R990ZZ	Drainage of Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0R9940Z	Drainage of Thoracic Vertebral Disc with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R994ZZ	Drainage of Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9A00Z	Drainage of Thoracolumbar Vertebral Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9A0ZZ	Drainage of Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0R9A40Z	Drainage of Thoracolumbar Vertebral Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9A4ZZ	Drainage of Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9B00Z	Drainage of Thoracolumbar Vertebral Disc with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9B0ZZ	Drainage of Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0R9B40Z	Drainage of Thoracolumbar Vertebral Disc with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9B4ZZ	Drainage of Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9C00Z	Drainage of Right Temporomandibular Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9C0ZZ	Drainage of Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0R9C40Z	Drainage of Right Temporomandibular Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9C4ZZ	Drainage of Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9D00Z	Drainage of Left Temporomandibular Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9D0ZZ	Drainage of Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0R9D40Z	Drainage of Left Temporomandibular Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9D4ZZ	Drainage of Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9E00Z	Drainage of Right Sternoclavicular Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9E0ZZ	Drainage of Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0R9E40Z	Drainage of Right Sternoclavicular Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9E4ZZ	Drainage of Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9F00Z	Drainage of Left Sternoclavicular Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9F0ZZ	Drainage of Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0R9F40Z	Drainage of Left Sternoclavicular Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9F4ZZ	Drainage of Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9G00Z	Drainage of Right Acromioclavicular Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9G0ZZ	Drainage of Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0R9G40Z	Drainage of Right Acromioclavicular Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9G4ZZ	Drainage of Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0R9H00Z	Drainage of Left Acromioclavicular Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9H0ZZ	Drainage of Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0R9H40Z	Drainage of Left Acromioclavicular Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9H4ZZ	Drainage of Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9J00Z	Drainage of Right Shoulder Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9J0ZZ	Drainage of Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0R9J40Z	Drainage of Right Shoulder Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9J4ZZ	Drainage of Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9K00Z	Drainage of Left Shoulder Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9K0ZZ	Drainage of Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0R9K40Z	Drainage of Left Shoulder Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9K4ZZ	Drainage of Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9L00Z	Drainage of Right Elbow Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9L0ZZ	Drainage of Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0R9L40Z	Drainage of Right Elbow Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9L4ZZ	Drainage of Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9M00Z	Drainage of Left Elbow Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9M0ZZ	Drainage of Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0R9M40Z	Drainage of Left Elbow Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9M4ZZ	Drainage of Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9N00Z	Drainage of Right Wrist Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9N0ZZ	Drainage of Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0R9N40Z	Drainage of Right Wrist Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9N4ZZ	Drainage of Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9P00Z	Drainage of Left Wrist Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9P0ZZ	Drainage of Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0R9P40Z	Drainage of Left Wrist Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9P4ZZ	Drainage of Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9Q00Z	Drainage of Right Carpal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9Q0ZZ	Drainage of Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0R9Q40Z	Drainage of Right Carpal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9Q4ZZ	Drainage of Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9R00Z	Drainage of Left Carpal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9R0ZZ	Drainage of Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0R9R40Z	Drainage of Left Carpal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9R4ZZ	Drainage of Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0R9S00Z	Drainage of Right Carpometacarpal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9S0ZZ	Drainage of Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0R9S40Z	Drainage of Right Carpometacarpal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9S4ZZ	Drainage of Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9T00Z	Drainage of Left Carpometacarpal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9T0ZZ	Drainage of Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0R9T40Z	Drainage of Left Carpometacarpal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9T4ZZ	Drainage of Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9U00Z	Drainage of Right Metacarpophalangeal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9U0ZZ	Drainage of Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0R9U40Z	Drainage of Right Metacarpophalangeal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9U4ZZ	Drainage of Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9V00Z	Drainage of Left Metacarpophalangeal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9V0ZZ	Drainage of Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0R9V40Z	Drainage of Left Metacarpophalangeal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9V4ZZ	Drainage of Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9W00Z	Drainage of Right Finger Phalangeal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9W0ZZ	Drainage of Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0R9W40Z	Drainage of Right Finger Phalangeal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9W4ZZ	Drainage of Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9X00Z	Drainage of Left Finger Phalangeal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0R9X0ZZ	Drainage of Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0R9X40Z	Drainage of Left Finger Phalangeal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0R9X4ZZ	Drainage of Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RB00ZZ	Excision of Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RB03ZZ	Excision of Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RB04ZZ	Excision of Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RB10ZZ	Excision of Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RB13ZZ	Excision of Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RB14ZZ	Excision of Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RB30ZZ	Excision of Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RB33ZZ	Excision of Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RB34ZZ	Excision of Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RB40ZZ	Excision of Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RB43ZZ	Excision of Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RB44ZZ	Excision of Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RB50ZZ	Excision of Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RB53ZZ	Excision of Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RB54ZZ	Excision of Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RB60ZZ	Excision of Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RB63ZZ	Excision of Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RB64ZZ	Excision of Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RB90ZZ	Excision of Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RB93ZZ	Excision of Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RB94ZZ	Excision of Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBA0ZZ	Excision of Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RBA3ZZ	Excision of Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBA4ZZ	Excision of Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBB0ZZ	Excision of Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RBB3ZZ	Excision of Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RBB4ZZ	Excision of Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBC0ZZ	Excision of Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RBC3ZZ	Excision of Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBC4ZZ	Excision of Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBD0ZZ	Excision of Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RBD3ZZ	Excision of Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBD4ZZ	Excision of Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBE0ZZ	Excision of Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RBE3ZZ	Excision of Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBE4ZZ	Excision of Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBF0ZZ	Excision of Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RBF3ZZ	Excision of Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBF4ZZ	Excision of Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBG0ZZ	Excision of Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RBG3ZZ	Excision of Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBG4ZZ	Excision of Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBH0ZZ	Excision of Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RBH3ZZ	Excision of Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBH4ZZ	Excision of Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBJ0ZZ	Excision of Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RBJ3ZZ	Excision of Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBJ4ZZ	Excision of Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBK0ZZ	Excision of Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RBK3ZZ	Excision of Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBK4ZZ	Excision of Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBL0ZZ	Excision of Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RBL3ZZ	Excision of Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBL4ZZ	Excision of Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBM0ZZ	Excision of Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RBM3ZZ	Excision of Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RBM4ZZ	Excision of Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBN0ZZ	Excision of Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RBN3ZZ	Excision of Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBN4ZZ	Excision of Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBP0ZZ	Excision of Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RBP3ZZ	Excision of Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBP4ZZ	Excision of Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBQ0ZZ	Excision of Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RBQ3ZZ	Excision of Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBQ4ZZ	Excision of Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBR0ZZ	Excision of Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RBR3ZZ	Excision of Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBR4ZZ	Excision of Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBS0ZZ	Excision of Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RBS3ZZ	Excision of Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBS4ZZ	Excision of Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBT0ZZ	Excision of Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RBT3ZZ	Excision of Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBT4ZZ	Excision of Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBU0ZZ	Excision of Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RBU3ZZ	Excision of Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBU4ZZ	Excision of Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBV0ZZ	Excision of Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RBV3ZZ	Excision of Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBV4ZZ	Excision of Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBW0ZZ	Excision of Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RBW3ZZ	Excision of Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBW4ZZ	Excision of Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RBX0ZZ	Excision of Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RBX3ZZ	Excision of Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RBX4ZZ	Excision of Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RC00ZZ	Extirpation of Matter from Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RC03ZZ	Extirpation of Matter from Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RC04ZZ	Extirpation of Matter from Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RC10ZZ	Extirpation of Matter from Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RC13ZZ	Extirpation of Matter from Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RC14ZZ	Extirpation of Matter from Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RC30ZZ	Extirpation of Matter from Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RC33ZZ	Extirpation of Matter from Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RC34ZZ	Extirpation of Matter from Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RC40ZZ	Extirpation of Matter from Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RC43ZZ	Extirpation of Matter from Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RC44ZZ	Extirpation of Matter from Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RC50ZZ	Extirpation of Matter from Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RC53ZZ	Extirpation of Matter from Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RC54ZZ	Extirpation of Matter from Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RC60ZZ	Extirpation of Matter from Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RC63ZZ	Extirpation of Matter from Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RC64ZZ	Extirpation of Matter from Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RC90ZZ	Extirpation of Matter from Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RC93ZZ	Extirpation of Matter from Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RC94ZZ	Extirpation of Matter from Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCA0ZZ	Extirpation of Matter from Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RCA3ZZ	Extirpation of Matter from Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCA4ZZ	Extirpation of Matter from Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCB0ZZ	Extirpation of Matter from Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RCB3ZZ	Extirpation of Matter from Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RCB4ZZ	Extirpation of Matter from Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCC0ZZ	Extirpation of Matter from Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RCC3ZZ	Extirpation of Matter from Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCC4ZZ	Extirpation of Matter from Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCD0ZZ	Extirpation of Matter from Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RCD3ZZ	Extirpation of Matter from Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCD4ZZ	Extirpation of Matter from Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCE0ZZ	Extirpation of Matter from Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RCE3ZZ	Extirpation of Matter from Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCE4ZZ	Extirpation of Matter from Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCF0ZZ	Extirpation of Matter from Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RCF3ZZ	Extirpation of Matter from Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCF4ZZ	Extirpation of Matter from Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RCG0ZZ	Extirpation of Matter from Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RCG3ZZ	Extirpation of Matter from Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCG4ZZ	Extirpation of Matter from Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCH0ZZ	Extirpation of Matter from Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RCH3ZZ	Extirpation of Matter from Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCH4ZZ	Extirpation of Matter from Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCJ0ZZ	Extirpation of Matter from Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RCJ3ZZ	Extirpation of Matter from Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCJ4ZZ	Extirpation of Matter from Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCK0ZZ	Extirpation of Matter from Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RCK3ZZ	Extirpation of Matter from Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCK4ZZ	Extirpation of Matter from Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCL0ZZ	Extirpation of Matter from Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RCL3ZZ	Extirpation of Matter from Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCL4ZZ	Extirpation of Matter from Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCM0ZZ	Extirpation of Matter from Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RCM3ZZ	Extirpation of Matter from Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCM4ZZ	Extirpation of Matter from Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCN0ZZ	Extirpation of Matter from Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RCN3ZZ	Extirpation of Matter from Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCN4ZZ	Extirpation of Matter from Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCP0ZZ	Extirpation of Matter from Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RCP3ZZ	Extirpation of Matter from Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCP4ZZ	Extirpation of Matter from Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCQ0ZZ	Extirpation of Matter from Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RCQ3ZZ	Extirpation of Matter from Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCQ4ZZ	Extirpation of Matter from Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCR0ZZ	Extirpation of Matter from Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RCR3ZZ	Extirpation of Matter from Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCR4ZZ	Extirpation of Matter from Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCS0ZZ	Extirpation of Matter from Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RCS3ZZ	Extirpation of Matter from Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCS4ZZ	Extirpation of Matter from Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCT0ZZ	Extirpation of Matter from Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RCT3ZZ	Extirpation of Matter from Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCT4ZZ	Extirpation of Matter from Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCU0ZZ	Extirpation of Matter from Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RCU3ZZ	Extirpation of Matter from Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCU4ZZ	Extirpation of Matter from Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCV0ZZ	Extirpation of Matter from Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RCV3ZZ	Extirpation of Matter from Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCV4ZZ	Extirpation of Matter from Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCW0ZZ	Extirpation of Matter from Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RCW3ZZ	Extirpation of Matter from Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCW4ZZ	Extirpation of Matter from Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RCX0ZZ	Extirpation of Matter from Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RCX3ZZ	Extirpation of Matter from Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RCX4ZZ	Extirpation of Matter from Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG0070	Fusion of Occipital-cervical Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG0071	Fusion of Occipital-cervical Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG007J	Fusion of Occipital-cervical Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG00A0	Fusion of Occipital-cervical Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG00A1	Fusion of Occipital-cervical Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG00AJ	Fusion of Occipital-cervical Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG00J0	Fusion of Occipital-cervical Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG00J1	Fusion of Occipital-cervical Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG00JJ	Fusion of Occipital-cervical Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG00K0	Fusion of Occipital-cervical Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG00K1	Fusion of Occipital-cervical Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG00KJ	Fusion of Occipital-cervical Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG00Z0	Fusion of Occipital-cervical Joint, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG00Z1	Fusion of Occipital-cervical Joint, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG00ZJ	Fusion of Occipital-cervical Joint, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG0370	Fusion of Occipital-cervical Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG0371	Fusion of Occipital-cervical Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG037J	Fusion of Occipital-cervical Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03A0	Fusion of Occipital-cervical Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03A1	Fusion of Occipital-cervical Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03AJ	Fusion of Occipital-cervical Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03J0	Fusion of Occipital-cervical Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03J1	Fusion of Occipital-cervical Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03JJ	Fusion of Occipital-cervical Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03K0	Fusion of Occipital-cervical Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03K1	Fusion of Occipital-cervical Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03KJ	Fusion of Occipital-cervical Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03Z0	Fusion of Occipital-cervical Joint, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03Z1	Fusion of Occipital-cervical Joint, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG03ZJ	Fusion of Occipital-cervical Joint, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG0470	Fusion of Occipital-cervical Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG0471	Fusion of Occipital-cervical Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG047J	Fusion of Occipital-cervical Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG04A0	Fusion of Occipital-cervical Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04A1	Fusion of Occipital-cervical Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04AJ	Fusion of Occipital-cervical Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04J0	Fusion of Occipital-cervical Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04J1	Fusion of Occipital-cervical Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04JJ	Fusion of Occipital-cervical Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04K0	Fusion of Occipital-cervical Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04K1	Fusion of Occipital-cervical Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04KJ	Fusion of Occipital-cervical Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04Z0	Fusion of Occipital-cervical Joint, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04Z1	Fusion of Occipital-cervical Joint, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG04ZJ	Fusion of Occipital-cervical Joint, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG1070	Fusion of Cervical Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG1071	Fusion of Cervical Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG107J	Fusion of Cervical Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG10A0	Fusion of Cervical Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG10A1	Fusion of Cervical Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG10AJ	Fusion of Cervical Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG10J0	Fusion of Cervical Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG10J1	Fusion of Cervical Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG10JJ	Fusion of Cervical Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG10K0	Fusion of Cervical Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG10K1	Fusion of Cervical Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG10KJ	Fusion of Cervical Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG10Z0	Fusion of Cervical Vertebral Joint, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG10Z1	Fusion of Cervical Vertebral Joint, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG10ZJ	Fusion of Cervical Vertebral Joint, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG1370	Fusion of Cervical Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG1371	Fusion of Cervical Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG137J	Fusion of Cervical Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13A0	Fusion of Cervical Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13A1	Fusion of Cervical Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13AJ	Fusion of Cervical Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13J0	Fusion of Cervical Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13J1	Fusion of Cervical Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13JJ	Fusion of Cervical Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13K0	Fusion of Cervical Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13K1	Fusion of Cervical Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13KJ	Fusion of Cervical Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13Z0	Fusion of Cervical Vertebral Joint, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13Z1	Fusion of Cervical Vertebral Joint, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG13ZJ	Fusion of Cervical Vertebral Joint, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG1470	Fusion of Cervical Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG1471	Fusion of Cervical Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG147J	Fusion of Cervical Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14A0	Fusion of Cervical Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14A1	Fusion of Cervical Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14AJ	Fusion of Cervical Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14J0	Fusion of Cervical Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14J1	Fusion of Cervical Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14JJ	Fusion of Cervical Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14K0	Fusion of Cervical Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14K1	Fusion of Cervical Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14KJ	Fusion of Cervical Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14Z0	Fusion of Cervical Vertebral Joint, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14Z1	Fusion of Cervical Vertebral Joint, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG14ZJ	Fusion of Cervical Vertebral Joint, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG2070	Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG2071	Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG207J	Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG20A0	Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG20A1	Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG20AJ	Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG20J0	Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG20J1	Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG20JJ	Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG20K0	Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG20K1	Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG20KJ	Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG20Z0	Fusion of 2 or more Cervical Vertebral Joints, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG20Z1	Fusion of 2 or more Cervical Vertebral Joints, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG20ZJ	Fusion of 2 or more Cervical Vertebral Joints, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG2370	Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG2371	Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG237J	Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23A0	Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23A1	Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23AJ	Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23J0	Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23J1	Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23JJ	Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23K0	Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23K1	Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23KJ	Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23Z0	Fusion of 2 or more Cervical Vertebral Joints, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23Z1	Fusion of 2 or more Cervical Vertebral Joints, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG23ZJ	Fusion of 2 or more Cervical Vertebral Joints, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG2470	Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG2471	Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG247J	Fusion of 2 or more Cervical Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24A0	Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24A1	Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24AJ	Fusion of 2 or more Cervical Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24J0	Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24J1	Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24JJ	Fusion of 2 or more Cervical Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24K0	Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24K1	Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24KJ	Fusion of 2 or more Cervical Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24Z0	Fusion of 2 or more Cervical Vertebral Joints, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24Z1	Fusion of 2 or more Cervical Vertebral Joints, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG24ZJ	Fusion of 2 or more Cervical Vertebral Joints, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG4070	Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG4071	Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG407J	Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG40A0	Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG40A1	Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG40AJ	Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG40J0	Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG40J1	Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG40JJ	Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG40K0	Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG40K1	Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG40KJ	Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG40Z0	Fusion of Cervicothoracic Vertebral Joint, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG40Z1	Fusion of Cervicothoracic Vertebral Joint, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG40ZJ	Fusion of Cervicothoracic Vertebral Joint, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG4370	Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG4371	Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG437J	Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43A0	Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43A1	Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43AJ	Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43J0	Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43J1	Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43JJ	Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43K0	Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43K1	Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43KJ	Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43Z0	Fusion of Cervicothoracic Vertebral Joint, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG43Z1	Fusion of Cervicothoracic Vertebral Joint, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG43ZJ	Fusion of Cervicothoracic Vertebral Joint, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG4470	Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG4471	Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG447J	Fusion of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44A0	Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44A1	Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44AJ	Fusion of Cervicothoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44J0	Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44J1	Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44JJ	Fusion of Cervicothoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44K0	Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44K1	Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44KJ	Fusion of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44Z0	Fusion of Cervicothoracic Vertebral Joint, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44Z1	Fusion of Cervicothoracic Vertebral Joint, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG44ZJ	Fusion of Cervicothoracic Vertebral Joint, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG6070	Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG6071	Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG607J	Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG60A0	Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG60A1	Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG60AJ	Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG60J0	Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG60J1	Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG60JJ	Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG60K0	Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG60K1	Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG60KJ	Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG60Z0	Fusion of Thoracic Vertebral Joint, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG60Z1	Fusion of Thoracic Vertebral Joint, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG60ZJ	Fusion of Thoracic Vertebral Joint, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG6370	Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG6371	Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG637J	Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63A0	Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63A1	Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63AJ	Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63J0	Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63J1	Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63JJ	Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63K0	Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63K1	Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63KJ	Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63Z0	Fusion of Thoracic Vertebral Joint, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG63Z1	Fusion of Thoracic Vertebral Joint, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG63ZJ	Fusion of Thoracic Vertebral Joint, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG6470	Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG6471	Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG647J	Fusion of Thoracic Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64A0	Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64A1	Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64AJ	Fusion of Thoracic Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64J0	Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64J1	Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64JJ	Fusion of Thoracic Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64K0	Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64K1	Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64KJ	Fusion of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64Z0	Fusion of Thoracic Vertebral Joint, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64Z1	Fusion of Thoracic Vertebral Joint, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG64ZJ	Fusion of Thoracic Vertebral Joint, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG7070	Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG7071	Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG707J	Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG70A0	Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG70A1	Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG70AJ	Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG70J0	Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG70J1	Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG70JJ	Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG70K0	Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG70K1	Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG70KJ	Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG70Z0	Fusion of 2 to 7 Thoracic Vertebral Joints, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG70Z1	Fusion of 2 to 7 Thoracic Vertebral Joints, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG70ZJ	Fusion of 2 to 7 Thoracic Vertebral Joints, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG7370	Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG7371	Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG737J	Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73A0	Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73A1	Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73AJ	Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73J0	Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73J1	Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73JJ	Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73K0	Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73K1	Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73KJ	Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG73Z0	Fusion of 2 to 7 Thoracic Vertebral Joints, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73Z1	Fusion of 2 to 7 Thoracic Vertebral Joints, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG73ZJ	Fusion of 2 to 7 Thoracic Vertebral Joints, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG7470	Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG7471	Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG747J	Fusion of 2 to 7 Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74A0	Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74A1	Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74AJ	Fusion of 2 to 7 Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74J0	Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74J1	Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74JJ	Fusion of 2 to 7 Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74K0	Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74K1	Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74KJ	Fusion of 2 to 7 Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74Z0	Fusion of 2 to 7 Thoracic Vertebral Joints, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74Z1	Fusion of 2 to 7 Thoracic Vertebral Joints, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG74ZJ	Fusion of 2 to 7 Thoracic Vertebral Joints, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG8070	Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG8071	Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG807J	Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG80A0	Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG80A1	Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG80AJ	Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG80J0	Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG80J1	Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG80JJ	Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG80K0	Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG80K1	Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG80KJ	Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG80Z0	Fusion of 8 or more Thoracic Vertebral Joints, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG80Z1	Fusion of 8 or more Thoracic Vertebral Joints, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RG80ZJ	Fusion of 8 or more Thoracic Vertebral Joints, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RG8370	Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG8371	Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG837J	Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83A0	Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83A1	Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83AJ	Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83J0	Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83J1	Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83JJ	Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83K0	Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83K1	Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RG83KJ	Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83Z0	Fusion of 8 or more Thoracic Vertebral Joints, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83Z1	Fusion of 8 or more Thoracic Vertebral Joints, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG83ZJ	Fusion of 8 or more Thoracic Vertebral Joints, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RG8470	Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG8471	Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG847J	Fusion of 8 or more Thoracic Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84A0	Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84A1	Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84AJ	Fusion of 8 or more Thoracic Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84J0	Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84J1	Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84JJ	Fusion of 8 or more Thoracic Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84K0	Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84K1	Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84KJ	Fusion of 8 or more Thoracic Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84Z0	Fusion of 8 or more Thoracic Vertebral Joints, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84Z1	Fusion of 8 or more Thoracic Vertebral Joints, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RG84ZJ	Fusion of 8 or more Thoracic Vertebral Joints, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA070	Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RGA071	Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGA07J	Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RGA0A0	Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RGA0A1	Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RGA0AJ	Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RGA0J0	Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RGA0J1	Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RGA0JJ	Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RGA0K0	Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RGA0K1	Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RGA0KJ	Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RGA0Z0	Fusion of Thoracolumbar Vertebral Joint, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RGA0Z1	Fusion of Thoracolumbar Vertebral Joint, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0RGA0ZJ	Fusion of Thoracolumbar Vertebral Joint, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0RGA370	Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA371	Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA37J	Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3A0	Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3A1	Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3AJ	Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3J0	Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3J1	Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3JJ	Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGA3K0	Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3K1	Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3KJ	Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3Z0	Fusion of Thoracolumbar Vertebral Joint, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3Z1	Fusion of Thoracolumbar Vertebral Joint, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA3ZJ	Fusion of Thoracolumbar Vertebral Joint, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0RGA470	Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA471	Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA47J	Fusion of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4A0	Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4A1	Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4AJ	Fusion of Thoracolumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4J0	Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4J1	Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4JJ	Fusion of Thoracolumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4K0	Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4K1	Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4KJ	Fusion of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4Z0	Fusion of Thoracolumbar Vertebral Joint, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4Z1	Fusion of Thoracolumbar Vertebral Joint, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGA4ZJ	Fusion of Thoracolumbar Vertebral Joint, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGC04Z	Fusion of Right Temporomandibular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGC07Z	Fusion of Right Temporomandibular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGC0JZ	Fusion of Right Temporomandibular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGC0KZ	Fusion of Right Temporomandibular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGC0ZZ	Fusion of Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RGC34Z	Fusion of Right Temporomandibular Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGC37Z	Fusion of Right Temporomandibular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGC3JZ	Fusion of Right Temporomandibular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGC3KZ	Fusion of Right Temporomandibular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGC3ZZ	Fusion of Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGC44Z	Fusion of Right Temporomandibular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGC47Z	Fusion of Right Temporomandibular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGC4JZ	Fusion of Right Temporomandibular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGC4KZ	Fusion of Right Temporomandibular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGC4ZZ	Fusion of Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGD04Z	Fusion of Left Temporomandibular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGD07Z	Fusion of Left Temporomandibular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGD0JZ	Fusion of Left Temporomandibular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGD0KZ	Fusion of Left Temporomandibular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGD0ZZ	Fusion of Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RGD34Z	Fusion of Left Temporomandibular Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGD37Z	Fusion of Left Temporomandibular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGD3JZ	Fusion of Left Temporomandibular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGD3KZ	Fusion of Left Temporomandibular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGD3ZZ	Fusion of Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGD44Z	Fusion of Left Temporomandibular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGD47Z	Fusion of Left Temporomandibular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGD4JZ	Fusion of Left Temporomandibular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGD4KZ	Fusion of Left Temporomandibular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGD4ZZ	Fusion of Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGE04Z	Fusion of Right Sternoclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGE07Z	Fusion of Right Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGE0JZ	Fusion of Right Sternoclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGE0KZ	Fusion of Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGE0ZZ	Fusion of Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RGE34Z	Fusion of Right Sternoclavicular Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGE37Z	Fusion of Right Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGE3JZ	Fusion of Right Sternoclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGE3KZ	Fusion of Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGE3ZZ	Fusion of Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGE44Z	Fusion of Right Sternoclavicular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGE47Z	Fusion of Right Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGE4JZ	Fusion of Right Sternoclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGE4KZ	Fusion of Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGE4ZZ	Fusion of Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGF04Z	Fusion of Left Sternoclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGF07Z	Fusion of Left Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGF0JZ	Fusion of Left Sternoclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGF0KZ	Fusion of Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGF0ZZ	Fusion of Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RGF34Z	Fusion of Left Sternoclavicular Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGF37Z	Fusion of Left Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGF3JZ	Fusion of Left Sternoclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGF3KZ	Fusion of Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGF3ZZ	Fusion of Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGF44Z	Fusion of Left Sternoclavicular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGF47Z	Fusion of Left Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGF4JZ	Fusion of Left Sternoclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGF4KZ	Fusion of Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGF4ZZ	Fusion of Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGG04Z	Fusion of Right Acromioclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGG07Z	Fusion of Right Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGG0JZ	Fusion of Right Acromioclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGG0KZ	Fusion of Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGG0ZZ	Fusion of Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RGG34Z	Fusion of Right Acromioclavicular Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGG37Z	Fusion of Right Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGG3JZ	Fusion of Right Acromioclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGG3KZ	Fusion of Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGG3ZZ	Fusion of Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGG44Z	Fusion of Right Acromioclavicular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGG47Z	Fusion of Right Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGG4JZ	Fusion of Right Acromioclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGG4KZ	Fusion of Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGG4ZZ	Fusion of Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGH04Z	Fusion of Left Acromioclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGH07Z	Fusion of Left Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGH0JZ	Fusion of Left Acromioclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGH0KZ	Fusion of Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGH0ZZ	Fusion of Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RGH34Z	Fusion of Left Acromioclavicular Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGH37Z	Fusion of Left Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGH3JZ	Fusion of Left Acromioclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGH3KZ	Fusion of Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGH3ZZ	Fusion of Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGH44Z	Fusion of Left Acromioclavicular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGH47Z	Fusion of Left Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGH4JZ	Fusion of Left Acromioclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGH4KZ	Fusion of Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGH4ZZ	Fusion of Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGJ04Z	Fusion of Right Shoulder Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGJ07Z	Fusion of Right Shoulder Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGJ0JZ	Fusion of Right Shoulder Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGJ0KZ	Fusion of Right Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGJ0ZZ	Fusion of Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RGJ34Z	Fusion of Right Shoulder Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGJ37Z	Fusion of Right Shoulder Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGJ3JZ	Fusion of Right Shoulder Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGJ3KZ	Fusion of Right Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGJ3ZZ	Fusion of Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGJ44Z	Fusion of Right Shoulder Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGJ47Z	Fusion of Right Shoulder Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGJ4JZ	Fusion of Right Shoulder Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGJ4KZ	Fusion of Right Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGJ4ZZ	Fusion of Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGK04Z	Fusion of Left Shoulder Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGK07Z	Fusion of Left Shoulder Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGK0JZ	Fusion of Left Shoulder Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGK0KZ	Fusion of Left Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGK0ZZ	Fusion of Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RGK34Z	Fusion of Left Shoulder Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGK37Z	Fusion of Left Shoulder Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGK3JZ	Fusion of Left Shoulder Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGK3KZ	Fusion of Left Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGK3ZZ	Fusion of Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGK44Z	Fusion of Left Shoulder Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGK47Z	Fusion of Left Shoulder Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGK4JZ	Fusion of Left Shoulder Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGK4KZ	Fusion of Left Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGK4ZZ	Fusion of Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGL03Z	Fusion of Right Elbow Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGL04Z	Fusion of Right Elbow Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGL05Z	Fusion of Right Elbow Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGL07Z	Fusion of Right Elbow Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGL0JZ	Fusion of Right Elbow Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGL0KZ	Fusion of Right Elbow Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGL0ZZ	Fusion of Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RGL33Z	Fusion of Right Elbow Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGL34Z	Fusion of Right Elbow Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGL35Z	Fusion of Right Elbow Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGL37Z	Fusion of Right Elbow Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGL3JZ	Fusion of Right Elbow Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGL3KZ	Fusion of Right Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGL3ZZ	Fusion of Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGL43Z	Fusion of Right Elbow Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGL44Z	Fusion of Right Elbow Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGL45Z	Fusion of Right Elbow Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGL47Z	Fusion of Right Elbow Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGL4JZ	Fusion of Right Elbow Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGL4KZ	Fusion of Right Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGL4ZZ	Fusion of Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGM03Z	Fusion of Left Elbow Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGM04Z	Fusion of Left Elbow Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGM05Z	Fusion of Left Elbow Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGM07Z	Fusion of Left Elbow Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGM0JZ	Fusion of Left Elbow Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGM0KZ	Fusion of Left Elbow Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGM0ZZ	Fusion of Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RGM33Z	Fusion of Left Elbow Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGM34Z	Fusion of Left Elbow Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGM35Z	Fusion of Left Elbow Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGM37Z	Fusion of Left Elbow Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGM3JZ	Fusion of Left Elbow Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGM3KZ	Fusion of Left Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGM3ZZ	Fusion of Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGM43Z	Fusion of Left Elbow Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGM44Z	Fusion of Left Elbow Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGM45Z	Fusion of Left Elbow Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGM47Z	Fusion of Left Elbow Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGM4JZ	Fusion of Left Elbow Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGM4KZ	Fusion of Left Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGM4ZZ	Fusion of Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGN03Z	Fusion of Right Wrist Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGN04Z	Fusion of Right Wrist Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGN05Z	Fusion of Right Wrist Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGN07Z	Fusion of Right Wrist Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGN0JZ	Fusion of Right Wrist Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGN0KZ	Fusion of Right Wrist Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGN0ZZ	Fusion of Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RGN33Z	Fusion of Right Wrist Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGN34Z	Fusion of Right Wrist Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGN35Z	Fusion of Right Wrist Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGN37Z	Fusion of Right Wrist Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGN3JZ	Fusion of Right Wrist Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGN3KZ	Fusion of Right Wrist Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGN3ZZ	Fusion of Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGN43Z	Fusion of Right Wrist Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGN44Z	Fusion of Right Wrist Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGN45Z	Fusion of Right Wrist Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGN47Z	Fusion of Right Wrist Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGN4JZ	Fusion of Right Wrist Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGN4KZ	Fusion of Right Wrist Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGN4ZZ	Fusion of Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGP03Z	Fusion of Left Wrist Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGP04Z	Fusion of Left Wrist Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGP05Z	Fusion of Left Wrist Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGP07Z	Fusion of Left Wrist Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGP0JZ	Fusion of Left Wrist Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGP0KZ	Fusion of Left Wrist Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGP0ZZ	Fusion of Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RGP33Z	Fusion of Left Wrist Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGP34Z	Fusion of Left Wrist Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGP35Z	Fusion of Left Wrist Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGP37Z	Fusion of Left Wrist Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGP3JZ	Fusion of Left Wrist Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGP3KZ	Fusion of Left Wrist Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGP3ZZ	Fusion of Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGP43Z	Fusion of Left Wrist Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGP44Z	Fusion of Left Wrist Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGP45Z	Fusion of Left Wrist Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGP47Z	Fusion of Left Wrist Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGP4JZ	Fusion of Left Wrist Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGP4KZ	Fusion of Left Wrist Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGP4ZZ	Fusion of Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGQ03Z	Fusion of Right Carpal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGQ04Z	Fusion of Right Carpal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGQ05Z	Fusion of Right Carpal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGQ07Z	Fusion of Right Carpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGQ0JZ	Fusion of Right Carpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGQ0KZ	Fusion of Right Carpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGQ0ZZ	Fusion of Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RGQ33Z	Fusion of Right Carpal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGQ34Z	Fusion of Right Carpal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGQ35Z	Fusion of Right Carpal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGQ37Z	Fusion of Right Carpal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGQ3JZ	Fusion of Right Carpal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGQ3KZ	Fusion of Right Carpal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGQ3ZZ	Fusion of Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGQ43Z	Fusion of Right Carpal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGQ44Z	Fusion of Right Carpal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGQ45Z	Fusion of Right Carpal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGQ47Z	Fusion of Right Carpal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGQ4JZ	Fusion of Right Carpal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGQ4KZ	Fusion of Right Carpal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGQ4ZZ	Fusion of Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGR03Z	Fusion of Left Carpal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGR04Z	Fusion of Left Carpal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGR05Z	Fusion of Left Carpal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGR07Z	Fusion of Left Carpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGR0JZ	Fusion of Left Carpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGR0KZ	Fusion of Left Carpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGR0ZZ	Fusion of Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RGR33Z	Fusion of Left Carpal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGR34Z	Fusion of Left Carpal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGR35Z	Fusion of Left Carpal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGR37Z	Fusion of Left Carpal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGR3JZ	Fusion of Left Carpal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGR3KZ	Fusion of Left Carpal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGR3ZZ	Fusion of Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGR43Z	Fusion of Left Carpal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGR44Z	Fusion of Left Carpal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGR45Z	Fusion of Left Carpal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGR47Z	Fusion of Left Carpal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGR4JZ	Fusion of Left Carpal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGR4KZ	Fusion of Left Carpal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGR4ZZ	Fusion of Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGS03Z	Fusion of Right Carpometacarpal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGS04Z	Fusion of Right Carpometacarpal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGS05Z	Fusion of Right Carpometacarpal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGS07Z	Fusion of Right Carpometacarpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGS0JZ	Fusion of Right Carpometacarpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGS0KZ	Fusion of Right Carpometacarpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGS0ZZ	Fusion of Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RGS33Z	Fusion of Right Carpometacarpal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGS34Z	Fusion of Right Carpometacarpal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGS35Z	Fusion of Right Carpometacarpal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGS37Z	Fusion of Right Carpometacarpal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGS3JZ	Fusion of Right Carpometacarpal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGS3KZ	Fusion of Right Carpometacarpal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGS3ZZ	Fusion of Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGS43Z	Fusion of Right Carpometacarpal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGS44Z	Fusion of Right Carpometacarpal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGS45Z	Fusion of Right Carpometacarpal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGS47Z	Fusion of Right Carpometacarpal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGS4JZ	Fusion of Right Carpometacarpal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGS4KZ	Fusion of Right Carpometacarpal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGS4ZZ	Fusion of Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGT03Z	Fusion of Left Carpometacarpal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGT04Z	Fusion of Left Carpometacarpal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGT05Z	Fusion of Left Carpometacarpal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGT07Z	Fusion of Left Carpometacarpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGT0JZ	Fusion of Left Carpometacarpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGT0KZ	Fusion of Left Carpometacarpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGT0ZZ	Fusion of Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RGT33Z	Fusion of Left Carpometacarpal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGT34Z	Fusion of Left Carpometacarpal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGT35Z	Fusion of Left Carpometacarpal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGT37Z	Fusion of Left Carpometacarpal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGT3JZ	Fusion of Left Carpometacarpal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGT3KZ	Fusion of Left Carpometacarpal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGT3ZZ	Fusion of Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGT43Z	Fusion of Left Carpometacarpal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGT44Z	Fusion of Left Carpometacarpal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGT45Z	Fusion of Left Carpometacarpal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGT47Z	Fusion of Left Carpometacarpal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGT4JZ	Fusion of Left Carpometacarpal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGT4KZ	Fusion of Left Carpometacarpal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGT4ZZ	Fusion of Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGU03Z	Fusion of Right Metacarpophalangeal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGU04Z	Fusion of Right Metacarpophalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGU05Z	Fusion of Right Metacarpophalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGU07Z	Fusion of Right Metacarpophalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGU0JZ	Fusion of Right Metacarpophalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGU0KZ	Fusion of Right Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGU0ZZ	Fusion of Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RGU33Z	Fusion of Right Metacarpophalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGU34Z	Fusion of Right Metacarpophalangeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGU35Z	Fusion of Right Metacarpophalangeal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGU37Z	Fusion of Right Metacarpophalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGU3JZ	Fusion of Right Metacarpophalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGU3KZ	Fusion of Right Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGU3ZZ	Fusion of Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGU43Z	Fusion of Right Metacarpophalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGU44Z	Fusion of Right Metacarpophalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGU45Z	Fusion of Right Metacarpophalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGU47Z	Fusion of Right Metacarpophalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGU4JZ	Fusion of Right Metacarpophalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGU4KZ	Fusion of Right Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGU4ZZ	Fusion of Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGV03Z	Fusion of Left Metacarpophalangeal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGV04Z	Fusion of Left Metacarpophalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGV05Z	Fusion of Left Metacarpophalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGV07Z	Fusion of Left Metacarpophalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGV0JZ	Fusion of Left Metacarpophalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGV0KZ	Fusion of Left Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGV0ZZ	Fusion of Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RGV33Z	Fusion of Left Metacarpophalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGV34Z	Fusion of Left Metacarpophalangeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGV35Z	Fusion of Left Metacarpophalangeal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGV37Z	Fusion of Left Metacarpophalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGV3JZ	Fusion of Left Metacarpophalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGV3KZ	Fusion of Left Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGV3ZZ	Fusion of Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGV43Z	Fusion of Left Metacarpophalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGV44Z	Fusion of Left Metacarpophalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGV45Z	Fusion of Left Metacarpophalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGV47Z	Fusion of Left Metacarpophalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGV4JZ	Fusion of Left Metacarpophalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGV4KZ	Fusion of Left Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGV4ZZ	Fusion of Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGW03Z	Fusion of Right Finger Phalangeal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGW04Z	Fusion of Right Finger Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGW05Z	Fusion of Right Finger Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGW07Z	Fusion of Right Finger Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGW0JZ	Fusion of Right Finger Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGW0KZ	Fusion of Right Finger Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGW0ZZ	Fusion of Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RGW33Z	Fusion of Right Finger Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGW34Z	Fusion of Right Finger Phalangeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGW35Z	Fusion of Right Finger Phalangeal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGW37Z	Fusion of Right Finger Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGW3JZ	Fusion of Right Finger Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGW3KZ	Fusion of Right Finger Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGW3ZZ	Fusion of Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGW43Z	Fusion of Right Finger Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGW44Z	Fusion of Right Finger Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGW45Z	Fusion of Right Finger Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGW47Z	Fusion of Right Finger Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGW4JZ	Fusion of Right Finger Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGW4KZ	Fusion of Right Finger Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGW4ZZ	Fusion of Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGX03Z	Fusion of Left Finger Phalangeal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGX04Z	Fusion of Left Finger Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RGX05Z	Fusion of Left Finger Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RGX07Z	Fusion of Left Finger Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGX0JZ	Fusion of Left Finger Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RGX0KZ	Fusion of Left Finger Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RGX0ZZ	Fusion of Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RGX33Z	Fusion of Left Finger Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGX34Z	Fusion of Left Finger Phalangeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGX35Z	Fusion of Left Finger Phalangeal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0RGX37Z	Fusion of Left Finger Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGX3JZ	Fusion of Left Finger Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGX3KZ	Fusion of Left Finger Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RGX3ZZ	Fusion of Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RGX43Z	Fusion of Left Finger Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RGX44Z	Fusion of Left Finger Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGX45Z	Fusion of Left Finger Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGX47Z	Fusion of Left Finger Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGX4JZ	Fusion of Left Finger Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGX4KZ	Fusion of Left Finger Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RGX4ZZ	Fusion of Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH003Z	Insertion of Infusion Device into Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RH004Z	Insertion of Internal Fixation Device into Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RH008Z	Insertion of Spacer into Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RH00BZ	Insertion of Interspinous Process Spinal Stabilization Device into Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RH00CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RH00DZ	Insertion of Facet Replacement Spinal Stabilization Device into Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RH034Z	Insertion of Internal Fixation Device into Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH03BZ	Insertion of Interspinous Process Spinal Stabilization Device into Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH03CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH03DZ	Insertion of Facet Replacement Spinal Stabilization Device into Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH043Z	Insertion of Infusion Device into Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH044Z	Insertion of Internal Fixation Device into Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH048Z	Insertion of Spacer into Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH04BZ	Insertion of Interspinous Process Spinal Stabilization Device into Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH04CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH04DZ	Insertion of Facet Replacement Spinal Stabilization Device into Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH103Z	Insertion of Infusion Device into Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH104Z	Insertion of Internal Fixation Device into Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH108Z	Insertion of Spacer into Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RH10BZ	Insertion of Interspinous Process Spinal Stabilization Device into Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH10CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH10DZ	Insertion of Facet Replacement Spinal Stabilization Device into Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH134Z	Insertion of Internal Fixation Device into Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH13BZ	Insertion of Interspinous Process Spinal Stabilization Device into Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH13CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH13DZ	Insertion of Facet Replacement Spinal Stabilization Device into Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH143Z	Insertion of Infusion Device into Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH144Z	Insertion of Internal Fixation Device into Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH148Z	Insertion of Spacer into Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH14BZ	Insertion of Interspinous Process Spinal Stabilization Device into Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH14CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH14DZ	Insertion of Facet Replacement Spinal Stabilization Device into Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH303Z	Insertion of Infusion Device into Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RH343Z	Insertion of Infusion Device into Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH403Z	Insertion of Infusion Device into Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH404Z	Insertion of Internal Fixation Device into Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH408Z	Insertion of Spacer into Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH40BZ	Insertion of Interspinous Process Spinal Stabilization Device into Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH40CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH40DZ	Insertion of Facet Replacement Spinal Stabilization Device into Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH434Z	Insertion of Internal Fixation Device into Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH43BZ	Insertion of Interspinous Process Spinal Stabilization Device into Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH43CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RH43DZ	Insertion of Facet Replacement Spinal Stabilization Device into Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH443Z	Insertion of Infusion Device into Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH444Z	Insertion of Internal Fixation Device into Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH448Z	Insertion of Spacer into Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH44BZ	Insertion of Interspinous Process Spinal Stabilization Device into Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH44CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH44DZ	Insertion of Facet Replacement Spinal Stabilization Device into Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH503Z	Insertion of Infusion Device into Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RH543Z	Insertion of Infusion Device into Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH603Z	Insertion of Infusion Device into Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH604Z	Insertion of Internal Fixation Device into Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH608Z	Insertion of Spacer into Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH60BZ	Insertion of Interspinous Process Spinal Stabilization Device into Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH60CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH60DZ	Insertion of Facet Replacement Spinal Stabilization Device into Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RH634Z	Insertion of Internal Fixation Device into Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH63BZ	Insertion of Interspinous Process Spinal Stabilization Device into Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH63CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH63DZ	Insertion of Facet Replacement Spinal Stabilization Device into Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RH643Z	Insertion of Infusion Device into Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH644Z	Insertion of Internal Fixation Device into Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH648Z	Insertion of Spacer into Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH64BZ	Insertion of Interspinous Process Spinal Stabilization Device into Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH64CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RH64DZ	Insertion of Facet Replacement Spinal Stabilization Device into Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RH903Z	Insertion of Infusion Device into Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RH943Z	Insertion of Infusion Device into Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHA03Z	Insertion of Infusion Device into Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RHA04Z	Insertion of Internal Fixation Device into Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RHA08Z	Insertion of Spacer into Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RHA0BZ	Insertion of Interspinous Process Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RHA0CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RHA0DZ	Insertion of Facet Replacement Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RHA34Z	Insertion of Internal Fixation Device into Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHA3BZ	Insertion of Interspinous Process Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHA3CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHA3DZ	Insertion of Facet Replacement Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHA43Z	Insertion of Infusion Device into Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHA44Z	Insertion of Internal Fixation Device into Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHA48Z	Insertion of Spacer into Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHA4BZ	Insertion of Interspinous Process Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHA4CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHA4DZ	Insertion of Facet Replacement Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHB03Z	Insertion of Infusion Device into Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RHB43Z	Insertion of Infusion Device into Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHC03Z	Insertion of Infusion Device into Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RHC04Z	Insertion of Internal Fixation Device into Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RHC08Z	Insertion of Spacer into Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RHC34Z	Insertion of Internal Fixation Device into Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RHC43Z	Insertion of Infusion Device into Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHC44Z	Insertion of Internal Fixation Device into Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHC48Z	Insertion of Spacer into Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHD03Z	Insertion of Infusion Device into Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RHD04Z	Insertion of Internal Fixation Device into Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RHD08Z	Insertion of Spacer into Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RHD34Z	Insertion of Internal Fixation Device into Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHD43Z	Insertion of Infusion Device into Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHD44Z	Insertion of Internal Fixation Device into Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHD48Z	Insertion of Spacer into Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHE03Z	Insertion of Infusion Device into Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHE04Z	Insertion of Internal Fixation Device into Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHE08Z	Insertion of Spacer into Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHE34Z	Insertion of Internal Fixation Device into Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHE43Z	Insertion of Infusion Device into Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHE44Z	Insertion of Internal Fixation Device into Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHE48Z	Insertion of Spacer into Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHF03Z	Insertion of Infusion Device into Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHF04Z	Insertion of Internal Fixation Device into Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHF08Z	Insertion of Spacer into Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHF34Z	Insertion of Internal Fixation Device into Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHF43Z	Insertion of Infusion Device into Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHF44Z	Insertion of Internal Fixation Device into Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHF48Z	Insertion of Spacer into Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHG03Z	Insertion of Infusion Device into Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHG04Z	Insertion of Internal Fixation Device into Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RHG08Z	Insertion of Spacer into Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHG34Z	Insertion of Internal Fixation Device into Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHG43Z	Insertion of Infusion Device into Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHG44Z	Insertion of Internal Fixation Device into Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHG48Z	Insertion of Spacer into Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHH03Z	Insertion of Infusion Device into Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHH04Z	Insertion of Internal Fixation Device into Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHH08Z	Insertion of Spacer into Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RHH34Z	Insertion of Internal Fixation Device into Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHH43Z	Insertion of Infusion Device into Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHH44Z	Insertion of Internal Fixation Device into Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHH48Z	Insertion of Spacer into Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHJ03Z	Insertion of Infusion Device into Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RHJ04Z	Insertion of Internal Fixation Device into Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RHJ08Z	Insertion of Spacer into Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RHJ34Z	Insertion of Internal Fixation Device into Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHJ43Z	Insertion of Infusion Device into Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHJ44Z	Insertion of Internal Fixation Device into Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHJ48Z	Insertion of Spacer into Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHK03Z	Insertion of Infusion Device into Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RHK04Z	Insertion of Internal Fixation Device into Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RHK08Z	Insertion of Spacer into Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RHK34Z	Insertion of Internal Fixation Device into Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHK43Z	Insertion of Infusion Device into Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHK44Z	Insertion of Internal Fixation Device into Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHK48Z	Insertion of Spacer into Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHL03Z	Insertion of Infusion Device into Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RHL04Z	Insertion of Internal Fixation Device into Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RHL05Z	Insertion of External Fixation Device into Right Elbow Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RHL08Z	Insertion of Spacer into Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RHL34Z	Insertion of Internal Fixation Device into Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHL35Z	Insertion of External Fixation Device into Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHL43Z	Insertion of Infusion Device into Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHL44Z	Insertion of Internal Fixation Device into Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHL45Z	Insertion of External Fixation Device into Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHL48Z	Insertion of Spacer into Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHM03Z	Insertion of Infusion Device into Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RHM04Z	Insertion of Internal Fixation Device into Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RHM05Z	Insertion of External Fixation Device into Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RHM08Z	Insertion of Spacer into Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RHM34Z	Insertion of Internal Fixation Device into Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHM35Z	Insertion of External Fixation Device into Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHM43Z	Insertion of Infusion Device into Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHM44Z	Insertion of Internal Fixation Device into Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHM45Z	Insertion of External Fixation Device into Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHM48Z	Insertion of Spacer into Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHN03Z	Insertion of Infusion Device into Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RHN04Z	Insertion of Internal Fixation Device into Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RHN05Z	Insertion of External Fixation Device into Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RHN08Z	Insertion of Spacer into Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RHN34Z	Insertion of Internal Fixation Device into Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHN35Z	Insertion of External Fixation Device into Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHN43Z	Insertion of Infusion Device into Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHN44Z	Insertion of Internal Fixation Device into Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHN45Z	Insertion of External Fixation Device into Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHN48Z	Insertion of Spacer into Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHP03Z	Insertion of Infusion Device into Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RHP04Z	Insertion of Internal Fixation Device into Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RHP05Z	Insertion of External Fixation Device into Left Wrist Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RHP08Z	Insertion of Spacer into Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RHP34Z	Insertion of Internal Fixation Device into Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHP35Z	Insertion of External Fixation Device into Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHP43Z	Insertion of Infusion Device into Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHP44Z	Insertion of Internal Fixation Device into Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHP45Z	Insertion of External Fixation Device into Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHP48Z	Insertion of Spacer into Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHQ03Z	Insertion of Infusion Device into Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RHQ04Z	Insertion of Internal Fixation Device into Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RHQ05Z	Insertion of External Fixation Device into Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RHQ08Z	Insertion of Spacer into Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RHQ34Z	Insertion of Internal Fixation Device into Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHQ35Z	Insertion of External Fixation Device into Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHQ43Z	Insertion of Infusion Device into Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHQ44Z	Insertion of Internal Fixation Device into Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHQ45Z	Insertion of External Fixation Device into Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHQ48Z	Insertion of Spacer into Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHR03Z	Insertion of Infusion Device into Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RHR04Z	Insertion of Internal Fixation Device into Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RHR05Z	Insertion of External Fixation Device into Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RHR08Z	Insertion of Spacer into Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RHR34Z	Insertion of Internal Fixation Device into Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHR35Z	Insertion of External Fixation Device into Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHR43Z	Insertion of Infusion Device into Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHR44Z	Insertion of Internal Fixation Device into Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHR45Z	Insertion of External Fixation Device into Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHR48Z	Insertion of Spacer into Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHS03Z	Insertion of Infusion Device into Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RHS04Z	Insertion of Internal Fixation Device into Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RHS05Z	Insertion of External Fixation Device into Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RHS08Z	Insertion of Spacer into Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RHS34Z	Insertion of Internal Fixation Device into Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHS35Z	Insertion of External Fixation Device into Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHS43Z	Insertion of Infusion Device into Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHS44Z	Insertion of Internal Fixation Device into Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHS45Z	Insertion of External Fixation Device into Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHS48Z	Insertion of Spacer into Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHT03Z	Insertion of Infusion Device into Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RHT04Z	Insertion of Internal Fixation Device into Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RHT05Z	Insertion of External Fixation Device into Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RHT08Z	Insertion of Spacer into Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RHT34Z	Insertion of Internal Fixation Device into Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHT35Z	Insertion of External Fixation Device into Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHT43Z	Insertion of Infusion Device into Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHT44Z	Insertion of Internal Fixation Device into Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHT45Z	Insertion of External Fixation Device into Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHT48Z	Insertion of Spacer into Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHU03Z	Insertion of Infusion Device into Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHU04Z	Insertion of Internal Fixation Device into Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHU05Z	Insertion of External Fixation Device into Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHU08Z	Insertion of Spacer into Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHU34Z	Insertion of Internal Fixation Device into Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHU35Z	Insertion of External Fixation Device into Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RHU43Z	Insertion of Infusion Device into Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHU44Z	Insertion of Internal Fixation Device into Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHU45Z	Insertion of External Fixation Device into Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHU48Z	Insertion of Spacer into Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHV03Z	Insertion of Infusion Device into Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHV04Z	Insertion of Internal Fixation Device into Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHV05Z	Insertion of External Fixation Device into Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHV08Z	Insertion of Spacer into Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHV34Z	Insertion of Internal Fixation Device into Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHV35Z	Insertion of External Fixation Device into Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHV43Z	Insertion of Infusion Device into Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHV44Z	Insertion of Internal Fixation Device into Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHV45Z	Insertion of External Fixation Device into Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHV48Z	Insertion of Spacer into Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHW03Z	Insertion of Infusion Device into Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHW04Z	Insertion of Internal Fixation Device into Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHW05Z	Insertion of External Fixation Device into Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHW08Z	Insertion of Spacer into Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHW34Z	Insertion of Internal Fixation Device into Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHW35Z	Insertion of External Fixation Device into Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHW43Z	Insertion of Infusion Device into Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHW44Z	Insertion of Internal Fixation Device into Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHW45Z	Insertion of External Fixation Device into Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHW48Z	Insertion of Spacer into Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RHX03Z	Insertion of Infusion Device into Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHX04Z	Insertion of Internal Fixation Device into Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHX05Z	Insertion of External Fixation Device into Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHX08Z	Insertion of Spacer into Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RHX34Z	Insertion of Internal Fixation Device into Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHX35Z	Insertion of External Fixation Device into Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RHX43Z	Insertion of Infusion Device into Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHX44Z	Insertion of Internal Fixation Device into Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHX45Z	Insertion of External Fixation Device into Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RHX48Z	Insertion of Spacer into Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RN00ZZ	Release Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RN03ZZ	Release Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RN04ZZ	Release Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RN10ZZ	Release Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RN13ZZ	Release Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RN14ZZ	Release Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RN30ZZ	Release Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RN33ZZ	Release Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RN34ZZ	Release Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RN40ZZ	Release Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RN43ZZ	Release Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RN44ZZ	Release Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RN50ZZ	Release Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RN53ZZ	Release Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RN54ZZ	Release Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RN60ZZ	Release Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RN63ZZ	Release Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RN64ZZ	Release Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RN90ZZ	Release Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RN93ZZ	Release Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RN94ZZ	Release Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNA0ZZ	Release Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RNA3ZZ	Release Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNA4ZZ	Release Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNB0ZZ	Release Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RNB3ZZ	Release Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RNB4ZZ	Release Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RNC0ZZ	Release Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RNC3ZZ	Release Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNC4ZZ	Release Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RND0ZZ	Release Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RND3ZZ	Release Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RND4ZZ	Release Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNE0ZZ	Release Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RNE3ZZ	Release Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNE4ZZ	Release Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNF0ZZ	Release Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RNF3ZZ	Release Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNF4ZZ	Release Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNG0ZZ	Release Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RNG3ZZ	Release Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNG4ZZ	Release Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNH0ZZ	Release Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RNH3ZZ	Release Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNH4ZZ	Release Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNJ0ZZ	Release Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RNJ3ZZ	Release Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNJ4ZZ	Release Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNK0ZZ	Release Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RNK3ZZ	Release Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNK4ZZ	Release Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNL0ZZ	Release Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RNL3ZZ	Release Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNL4ZZ	Release Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNM0ZZ	Release Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RNM3ZZ	Release Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNM4ZZ	Release Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNN0ZZ	Release Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RNN3ZZ	Release Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNN4ZZ	Release Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNP0ZZ	Release Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RNP3ZZ	Release Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNP4ZZ	Release Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNQ0ZZ	Release Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RNQ3ZZ	Release Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNQ4ZZ	Release Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNR0ZZ	Release Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RNR3ZZ	Release Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNR4ZZ	Release Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNS0ZZ	Release Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RNS3ZZ	Release Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNS4ZZ	Release Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RNT0ZZ	Release Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RNT3ZZ	Release Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNT4ZZ	Release Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNU0ZZ	Release Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RNU3ZZ	Release Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNU4ZZ	Release Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNV0ZZ	Release Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RNV3ZZ	Release Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNV4ZZ	Release Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNW0ZZ	Release Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RNW3ZZ	Release Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNW4ZZ	Release Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RNX0ZZ	Release Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RNX3ZZ	Release Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RNX4ZZ	Release Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP000Z	Removal of Drainage Device from Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RP003Z	Removal of Infusion Device from Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RP004Z	Removal of Internal Fixation Device from Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RP007Z	Removal of Autologous Tissue Substitute from Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RP008Z	Removal of Spacer from Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RP00AZ	Removal of Interbody Fusion Device from Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RP00JZ	Removal of Synthetic Substitute from Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RP00KZ	Removal of Nonautologous Tissue Substitute from Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RP034Z	Removal of Internal Fixation Device from Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP037Z	Removal of Autologous Tissue Substitute from Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP03AZ	Removal of Interbody Fusion Device from Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP03JZ	Removal of Synthetic Substitute from Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP03KZ	Removal of Nonautologous Tissue Substitute from Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP040Z	Removal of Drainage Device from Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP043Z	Removal of Infusion Device from Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP044Z	Removal of Internal Fixation Device from Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP047Z	Removal of Autologous Tissue Substitute from Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RP048Z	Removal of Spacer from Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP04AZ	Removal of Interbody Fusion Device from Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP04JZ	Removal of Synthetic Substitute from Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP04KZ	Removal of Nonautologous Tissue Substitute from Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP100Z	Removal of Drainage Device from Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP103Z	Removal of Infusion Device from Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP104Z	Removal of Internal Fixation Device from Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP107Z	Removal of Autologous Tissue Substitute from Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP108Z	Removal of Spacer from Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP10AZ	Removal of Interbody Fusion Device from Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP10JZ	Removal of Synthetic Substitute from Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP10KZ	Removal of Nonautologous Tissue Substitute from Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP134Z	Removal of Internal Fixation Device from Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP137Z	Removal of Autologous Tissue Substitute from Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP13AZ	Removal of Interbody Fusion Device from Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP13JZ	Removal of Synthetic Substitute from Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP13KZ	Removal of Nonautologous Tissue Substitute from Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP140Z	Removal of Drainage Device from Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP143Z	Removal of Infusion Device from Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP144Z	Removal of Internal Fixation Device from Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP147Z	Removal of Autologous Tissue Substitute from Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP148Z	Removal of Spacer from Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP14AZ	Removal of Interbody Fusion Device from Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP14JZ	Removal of Synthetic Substitute from Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RP14KZ	Removal of Nonautologous Tissue Substitute from Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP300Z	Removal of Drainage Device from Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP303Z	Removal of Infusion Device from Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP307Z	Removal of Autologous Tissue Substitute from Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP30JZ	Removal of Synthetic Substitute from Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP30KZ	Removal of Nonautologous Tissue Substitute from Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP337Z	Removal of Autologous Tissue Substitute from Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RP33JZ	Removal of Synthetic Substitute from Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RP33KZ	Removal of Nonautologous Tissue Substitute from Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RP340Z	Removal of Drainage Device from Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP343Z	Removal of Infusion Device from Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP347Z	Removal of Autologous Tissue Substitute from Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP34JZ	Removal of Synthetic Substitute from Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP34KZ	Removal of Nonautologous Tissue Substitute from Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP400Z	Removal of Drainage Device from Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP403Z	Removal of Infusion Device from Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP404Z	Removal of Internal Fixation Device from Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP407Z	Removal of Autologous Tissue Substitute from Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP408Z	Removal of Spacer from Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP40AZ	Removal of Interbody Fusion Device from Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP40JZ	Removal of Synthetic Substitute from Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP40KZ	Removal of Nonautologous Tissue Substitute from Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP434Z	Removal of Internal Fixation Device from Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP437Z	Removal of Autologous Tissue Substitute from Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RP43AZ	Removal of Interbody Fusion Device from Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP43JZ	Removal of Synthetic Substitute from Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP43KZ	Removal of Nonautologous Tissue Substitute from Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP440Z	Removal of Drainage Device from Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP443Z	Removal of Infusion Device from Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP444Z	Removal of Internal Fixation Device from Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP447Z	Removal of Autologous Tissue Substitute from Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP448Z	Removal of Spacer from Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP44AZ	Removal of Interbody Fusion Device from Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP44JZ	Removal of Synthetic Substitute from Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP44KZ	Removal of Nonautologous Tissue Substitute from Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP500Z	Removal of Drainage Device from Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP503Z	Removal of Infusion Device from Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP507Z	Removal of Autologous Tissue Substitute from Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP50JZ	Removal of Synthetic Substitute from Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP50KZ	Removal of Nonautologous Tissue Substitute from Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP537Z	Removal of Autologous Tissue Substitute from Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RP53JZ	Removal of Synthetic Substitute from Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RP53KZ	Removal of Nonautologous Tissue Substitute from Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RP540Z	Removal of Drainage Device from Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP543Z	Removal of Infusion Device from Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP547Z	Removal of Autologous Tissue Substitute from Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP54JZ	Removal of Synthetic Substitute from Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RP54KZ	Removal of Nonautologous Tissue Substitute from Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP600Z	Removal of Drainage Device from Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP603Z	Removal of Infusion Device from Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP604Z	Removal of Internal Fixation Device from Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP607Z	Removal of Autologous Tissue Substitute from Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP608Z	Removal of Spacer from Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP60AZ	Removal of Interbody Fusion Device from Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP60JZ	Removal of Synthetic Substitute from Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP60KZ	Removal of Nonautologous Tissue Substitute from Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RP634Z	Removal of Internal Fixation Device from Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP637Z	Removal of Autologous Tissue Substitute from Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP63AZ	Removal of Interbody Fusion Device from Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP63JZ	Removal of Synthetic Substitute from Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP63KZ	Removal of Nonautologous Tissue Substitute from Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RP640Z	Removal of Drainage Device from Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP643Z	Removal of Infusion Device from Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP644Z	Removal of Internal Fixation Device from Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP647Z	Removal of Autologous Tissue Substitute from Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP648Z	Removal of Spacer from Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP64AZ	Removal of Interbody Fusion Device from Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP64JZ	Removal of Synthetic Substitute from Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP64KZ	Removal of Nonautologous Tissue Substitute from Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP900Z	Removal of Drainage Device from Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP903Z	Removal of Infusion Device from Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP907Z	Removal of Autologous Tissue Substitute from Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP90JZ	Removal of Synthetic Substitute from Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RP90KZ	Removal of Nonautologous Tissue Substitute from Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RP937Z	Removal of Autologous Tissue Substitute from Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RP93JZ	Removal of Synthetic Substitute from Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RP93KZ	Removal of Nonautologous Tissue Substitute from Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RP940Z	Removal of Drainage Device from Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP943Z	Removal of Infusion Device from Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP947Z	Removal of Autologous Tissue Substitute from Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP94JZ	Removal of Synthetic Substitute from Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RP94KZ	Removal of Nonautologous Tissue Substitute from Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPA00Z	Removal of Drainage Device from Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RPA03Z	Removal of Infusion Device from Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RPA04Z	Removal of Internal Fixation Device from Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RPA07Z	Removal of Autologous Tissue Substitute from Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RPA08Z	Removal of Spacer from Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RPA0AZ	Removal of Interbody Fusion Device from Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RPA0JZ	Removal of Synthetic Substitute from Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RPA0KZ	Removal of Nonautologous Tissue Substitute from Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RPA34Z	Removal of Internal Fixation Device from Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPA37Z	Removal of Autologous Tissue Substitute from Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPA3AZ	Removal of Interbody Fusion Device from Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPA3JZ	Removal of Synthetic Substitute from Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPA3KZ	Removal of Nonautologous Tissue Substitute from Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPA40Z	Removal of Drainage Device from Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPA43Z	Removal of Infusion Device from Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPA44Z	Removal of Internal Fixation Device from Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPA47Z	Removal of Autologous Tissue Substitute from Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPA48Z	Removal of Spacer from Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPA4AZ	Removal of Interbody Fusion Device from Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPA4JZ	Removal of Synthetic Substitute from Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPA4KZ	Removal of Nonautologous Tissue Substitute from Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPB00Z	Removal of Drainage Device from Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RPB03Z	Removal of Infusion Device from Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RPB07Z	Removal of Autologous Tissue Substitute from Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RPB0JZ	Removal of Synthetic Substitute from Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RPB0KZ	Removal of Nonautologous Tissue Substitute from Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RPB37Z	Removal of Autologous Tissue Substitute from Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RPB3JZ	Removal of Synthetic Substitute from Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RPB3KZ	Removal of Nonautologous Tissue Substitute from Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RPB40Z	Removal of Drainage Device from Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPB43Z	Removal of Infusion Device from Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPB47Z	Removal of Autologous Tissue Substitute from Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPB4JZ	Removal of Synthetic Substitute from Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPB4KZ	Removal of Nonautologous Tissue Substitute from Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPC00Z	Removal of Drainage Device from Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPC03Z	Removal of Infusion Device from Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPC04Z	Removal of Internal Fixation Device from Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPC07Z	Removal of Autologous Tissue Substitute from Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPC08Z	Removal of Spacer from Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPC0JZ	Removal of Synthetic Substitute from Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPC0KZ	Removal of Nonautologous Tissue Substitute from Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPC34Z	Removal of Internal Fixation Device from Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPC37Z	Removal of Autologous Tissue Substitute from Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPC3JZ	Removal of Synthetic Substitute from Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPC3KZ	Removal of Nonautologous Tissue Substitute from Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPC40Z	Removal of Drainage Device from Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPC43Z	Removal of Infusion Device from Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPC44Z	Removal of Internal Fixation Device from Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPC47Z	Removal of Autologous Tissue Substitute from Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPC48Z	Removal of Spacer from Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPC4JZ	Removal of Synthetic Substitute from Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPC4KZ	Removal of Nonautologous Tissue Substitute from Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPCX4Z	Removal of Internal Fixation Device from Right Temporomandibular Joint, External Approach	PX	ICD-10-PCS
0RPD00Z	Removal of Drainage Device from Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPD03Z	Removal of Infusion Device from Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPD04Z	Removal of Internal Fixation Device from Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPD07Z	Removal of Autologous Tissue Substitute from Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPD08Z	Removal of Spacer from Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPD0JZ	Removal of Synthetic Substitute from Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPD0KZ	Removal of Nonautologous Tissue Substitute from Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RPD34Z	Removal of Internal Fixation Device from Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPD37Z	Removal of Autologous Tissue Substitute from Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPD3JZ	Removal of Synthetic Substitute from Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPD3KZ	Removal of Nonautologous Tissue Substitute from Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPD40Z	Removal of Drainage Device from Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPD43Z	Removal of Infusion Device from Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPD44Z	Removal of Internal Fixation Device from Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPD47Z	Removal of Autologous Tissue Substitute from Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPD48Z	Removal of Spacer from Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPD4JZ	Removal of Synthetic Substitute from Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPD4KZ	Removal of Nonautologous Tissue Substitute from Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPDX4Z	Removal of Internal Fixation Device from Left Temporomandibular Joint, External Approach	PX	ICD-10-PCS
0RPE00Z	Removal of Drainage Device from Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPE03Z	Removal of Infusion Device from Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPE04Z	Removal of Internal Fixation Device from Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPE07Z	Removal of Autologous Tissue Substitute from Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPE08Z	Removal of Spacer from Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPE0JZ	Removal of Synthetic Substitute from Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPE0KZ	Removal of Nonautologous Tissue Substitute from Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPE34Z	Removal of Internal Fixation Device from Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPE37Z	Removal of Autologous Tissue Substitute from Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPE3JZ	Removal of Synthetic Substitute from Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPE3KZ	Removal of Nonautologous Tissue Substitute from Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPE40Z	Removal of Drainage Device from Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPE43Z	Removal of Infusion Device from Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPE44Z	Removal of Internal Fixation Device from Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPE47Z	Removal of Autologous Tissue Substitute from Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPE48Z	Removal of Spacer from Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPE4JZ	Removal of Synthetic Substitute from Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPE4KZ	Removal of Nonautologous Tissue Substitute from Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPF00Z	Removal of Drainage Device from Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPF03Z	Removal of Infusion Device from Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPF04Z	Removal of Internal Fixation Device from Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPF07Z	Removal of Autologous Tissue Substitute from Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPF08Z	Removal of Spacer from Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPF0JZ	Removal of Synthetic Substitute from Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPF0KZ	Removal of Nonautologous Tissue Substitute from Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPF34Z	Removal of Internal Fixation Device from Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPF37Z	Removal of Autologous Tissue Substitute from Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPF3JZ	Removal of Synthetic Substitute from Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPF3KZ	Removal of Nonautologous Tissue Substitute from Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPF40Z	Removal of Drainage Device from Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPF43Z	Removal of Infusion Device from Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPF44Z	Removal of Internal Fixation Device from Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPF47Z	Removal of Autologous Tissue Substitute from Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPF48Z	Removal of Spacer from Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPF4JZ	Removal of Synthetic Substitute from Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPF4KZ	Removal of Nonautologous Tissue Substitute from Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPG00Z	Removal of Drainage Device from Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPG03Z	Removal of Infusion Device from Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPG04Z	Removal of Internal Fixation Device from Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPG07Z	Removal of Autologous Tissue Substitute from Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPG08Z	Removal of Spacer from Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPG0JZ	Removal of Synthetic Substitute from Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPG0KZ	Removal of Nonautologous Tissue Substitute from Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPG34Z	Removal of Internal Fixation Device from Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPG37Z	Removal of Autologous Tissue Substitute from Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPG3JZ	Removal of Synthetic Substitute from Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPG3KZ	Removal of Nonautologous Tissue Substitute from Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPG40Z	Removal of Drainage Device from Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPG43Z	Removal of Infusion Device from Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPG44Z	Removal of Internal Fixation Device from Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPG47Z	Removal of Autologous Tissue Substitute from Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPG48Z	Removal of Spacer from Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPG4JZ	Removal of Synthetic Substitute from Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPG4KZ	Removal of Nonautologous Tissue Substitute from Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPH00Z	Removal of Drainage Device from Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPH03Z	Removal of Infusion Device from Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPH04Z	Removal of Internal Fixation Device from Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPH07Z	Removal of Autologous Tissue Substitute from Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPH08Z	Removal of Spacer from Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPH0JZ	Removal of Synthetic Substitute from Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPH0KZ	Removal of Nonautologous Tissue Substitute from Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RPH34Z	Removal of Internal Fixation Device from Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPH37Z	Removal of Autologous Tissue Substitute from Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPH3JZ	Removal of Synthetic Substitute from Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPH3KZ	Removal of Nonautologous Tissue Substitute from Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPH40Z	Removal of Drainage Device from Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPH43Z	Removal of Infusion Device from Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPH44Z	Removal of Internal Fixation Device from Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPH47Z	Removal of Autologous Tissue Substitute from Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPH48Z	Removal of Spacer from Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPH4JZ	Removal of Synthetic Substitute from Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPH4KZ	Removal of Nonautologous Tissue Substitute from Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPJ00Z	Removal of Drainage Device from Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPJ03Z	Removal of Infusion Device from Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPJ04Z	Removal of Internal Fixation Device from Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPJ07Z	Removal of Autologous Tissue Substitute from Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPJ08Z	Removal of Spacer from Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPJ0J6	Removal of Synthetic Substitute from Right Shoulder Joint, Humeral Surface, Open Approach	PX	ICD-10-PCS
0RPJ0J7	Removal of Synthetic Substitute from Right Shoulder Joint, Glenoid Surface, Open Approach	PX	ICD-10-PCS
0RPJ0JZ	Removal of Synthetic Substitute from Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPJ0KZ	Removal of Nonautologous Tissue Substitute from Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPJ34Z	Removal of Internal Fixation Device from Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPJ37Z	Removal of Autologous Tissue Substitute from Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPJ3J6	Removal of Synthetic Substitute from Right Shoulder Joint, Humeral Surface, Percutaneous Approach	PX	ICD-10-PCS
0RPJ3J7	Removal of Synthetic Substitute from Right Shoulder Joint, Glenoid Surface, Percutaneous Approach	PX	ICD-10-PCS
0RPJ3JZ	Removal of Synthetic Substitute from Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPJ3KZ	Removal of Nonautologous Tissue Substitute from Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPJ40Z	Removal of Drainage Device from Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPJ43Z	Removal of Infusion Device from Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPJ44Z	Removal of Internal Fixation Device from Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPJ47Z	Removal of Autologous Tissue Substitute from Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPJ48Z	Removal of Spacer from Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPJ4J6	Removal of Synthetic Substitute from Right Shoulder Joint, Humeral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPJ4J7	Removal of Synthetic Substitute from Right Shoulder Joint, Glenoid Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPJ4JZ	Removal of Synthetic Substitute from Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPJ4KZ	Removal of Nonautologous Tissue Substitute from Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPK00Z	Removal of Drainage Device from Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPK03Z	Removal of Infusion Device from Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPK04Z	Removal of Internal Fixation Device from Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPK07Z	Removal of Autologous Tissue Substitute from Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPK08Z	Removal of Spacer from Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPK0J6	Removal of Synthetic Substitute from Left Shoulder Joint, Humeral Surface, Open Approach	PX	ICD-10-PCS
0RPK0J7	Removal of Synthetic Substitute from Left Shoulder Joint, Glenoid Surface, Open Approach	PX	ICD-10-PCS
0RPK0JZ	Removal of Synthetic Substitute from Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPK0KZ	Removal of Nonautologous Tissue Substitute from Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RPK34Z	Removal of Internal Fixation Device from Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPK37Z	Removal of Autologous Tissue Substitute from Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPK3J6	Removal of Synthetic Substitute from Left Shoulder Joint, Humeral Surface, Percutaneous Approach	PX	ICD-10-PCS
0RPK3J7	Removal of Synthetic Substitute from Left Shoulder Joint, Glenoid Surface, Percutaneous Approach	PX	ICD-10-PCS
0RPK3JZ	Removal of Synthetic Substitute from Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPK3KZ	Removal of Nonautologous Tissue Substitute from Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPK40Z	Removal of Drainage Device from Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPK43Z	Removal of Infusion Device from Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPK44Z	Removal of Internal Fixation Device from Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPK47Z	Removal of Autologous Tissue Substitute from Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPK48Z	Removal of Spacer from Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPK4J6	Removal of Synthetic Substitute from Left Shoulder Joint, Humeral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPK4J7	Removal of Synthetic Substitute from Left Shoulder Joint, Glenoid Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPK4JZ	Removal of Synthetic Substitute from Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPK4KZ	Removal of Nonautologous Tissue Substitute from Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPL00Z	Removal of Drainage Device from Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPL03Z	Removal of Infusion Device from Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPL04Z	Removal of Internal Fixation Device from Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPL05Z	Removal of External Fixation Device from Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPL07Z	Removal of Autologous Tissue Substitute from Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPL08Z	Removal of Spacer from Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPL0JZ	Removal of Synthetic Substitute from Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPL0KZ	Removal of Nonautologous Tissue Substitute from Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPL34Z	Removal of Internal Fixation Device from Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPL35Z	Removal of External Fixation Device from Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPL37Z	Removal of Autologous Tissue Substitute from Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPL3JZ	Removal of Synthetic Substitute from Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPL3KZ	Removal of Nonautologous Tissue Substitute from Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPL40Z	Removal of Drainage Device from Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPL43Z	Removal of Infusion Device from Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPL44Z	Removal of Internal Fixation Device from Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPL45Z	Removal of External Fixation Device from Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPL47Z	Removal of Autologous Tissue Substitute from Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPL48Z	Removal of Spacer from Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPL4JZ	Removal of Synthetic Substitute from Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPL4KZ	Removal of Nonautologous Tissue Substitute from Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPM00Z	Removal of Drainage Device from Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPM03Z	Removal of Infusion Device from Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPM04Z	Removal of Internal Fixation Device from Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPM05Z	Removal of External Fixation Device from Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPM07Z	Removal of Autologous Tissue Substitute from Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPM08Z	Removal of Spacer from Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPM0JZ	Removal of Synthetic Substitute from Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPM0KZ	Removal of Nonautologous Tissue Substitute from Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RPM34Z	Removal of Internal Fixation Device from Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPM35Z	Removal of External Fixation Device from Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPM37Z	Removal of Autologous Tissue Substitute from Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPM3JZ	Removal of Synthetic Substitute from Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPM3KZ	Removal of Nonautologous Tissue Substitute from Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPM40Z	Removal of Drainage Device from Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPM43Z	Removal of Infusion Device from Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPM44Z	Removal of Internal Fixation Device from Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPM45Z	Removal of External Fixation Device from Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPM47Z	Removal of Autologous Tissue Substitute from Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPM48Z	Removal of Spacer from Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPM4JZ	Removal of Synthetic Substitute from Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPM4KZ	Removal of Nonautologous Tissue Substitute from Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPN00Z	Removal of Drainage Device from Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPN03Z	Removal of Infusion Device from Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPN04Z	Removal of Internal Fixation Device from Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPN05Z	Removal of External Fixation Device from Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPN07Z	Removal of Autologous Tissue Substitute from Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPN08Z	Removal of Spacer from Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPN0JZ	Removal of Synthetic Substitute from Right Wrist Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPN0KZ	Removal of Nonautologous Tissue Substitute from Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPN34Z	Removal of Internal Fixation Device from Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPN35Z	Removal of External Fixation Device from Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPN37Z	Removal of Autologous Tissue Substitute from Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPN3JZ	Removal of Synthetic Substitute from Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPN3KZ	Removal of Nonautologous Tissue Substitute from Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPN40Z	Removal of Drainage Device from Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPN43Z	Removal of Infusion Device from Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPN44Z	Removal of Internal Fixation Device from Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPN45Z	Removal of External Fixation Device from Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPN47Z	Removal of Autologous Tissue Substitute from Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPN48Z	Removal of Spacer from Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPN4JZ	Removal of Synthetic Substitute from Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPN4KZ	Removal of Nonautologous Tissue Substitute from Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPP00Z	Removal of Drainage Device from Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPP03Z	Removal of Infusion Device from Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPP04Z	Removal of Internal Fixation Device from Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPP05Z	Removal of External Fixation Device from Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPP07Z	Removal of Autologous Tissue Substitute from Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPP08Z	Removal of Spacer from Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPP0JZ	Removal of Synthetic Substitute from Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPP0KZ	Removal of Nonautologous Tissue Substitute from Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RPP34Z	Removal of Internal Fixation Device from Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPP35Z	Removal of External Fixation Device from Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPP37Z	Removal of Autologous Tissue Substitute from Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPP3JZ	Removal of Synthetic Substitute from Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPP3KZ	Removal of Nonautologous Tissue Substitute from Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPP40Z	Removal of Drainage Device from Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPP43Z	Removal of Infusion Device from Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPP44Z	Removal of Internal Fixation Device from Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPP45Z	Removal of External Fixation Device from Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPP47Z	Removal of Autologous Tissue Substitute from Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPP48Z	Removal of Spacer from Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPP4JZ	Removal of Synthetic Substitute from Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPP4KZ	Removal of Nonautologous Tissue Substitute from Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPQ00Z	Removal of Drainage Device from Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPQ03Z	Removal of Infusion Device from Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPQ04Z	Removal of Internal Fixation Device from Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPQ05Z	Removal of External Fixation Device from Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPQ07Z	Removal of Autologous Tissue Substitute from Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPQ08Z	Removal of Spacer from Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPQ0JZ	Removal of Synthetic Substitute from Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPQ0KZ	Removal of Nonautologous Tissue Substitute from Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPQ34Z	Removal of Internal Fixation Device from Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPQ35Z	Removal of External Fixation Device from Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPQ37Z	Removal of Autologous Tissue Substitute from Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPQ3JZ	Removal of Synthetic Substitute from Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPQ3KZ	Removal of Nonautologous Tissue Substitute from Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPQ40Z	Removal of Drainage Device from Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPQ43Z	Removal of Infusion Device from Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPQ44Z	Removal of Internal Fixation Device from Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPQ45Z	Removal of External Fixation Device from Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPQ47Z	Removal of Autologous Tissue Substitute from Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPQ48Z	Removal of Spacer from Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPQ4JZ	Removal of Synthetic Substitute from Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPQ4KZ	Removal of Nonautologous Tissue Substitute from Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPR00Z	Removal of Drainage Device from Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPR03Z	Removal of Infusion Device from Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPR04Z	Removal of Internal Fixation Device from Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPR05Z	Removal of External Fixation Device from Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPR07Z	Removal of Autologous Tissue Substitute from Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPR08Z	Removal of Spacer from Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPR0JZ	Removal of Synthetic Substitute from Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPR0KZ	Removal of Nonautologous Tissue Substitute from Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RPR34Z	Removal of Internal Fixation Device from Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPR35Z	Removal of External Fixation Device from Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPR37Z	Removal of Autologous Tissue Substitute from Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPR3JZ	Removal of Synthetic Substitute from Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPR3KZ	Removal of Nonautologous Tissue Substitute from Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPR40Z	Removal of Drainage Device from Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPR43Z	Removal of Infusion Device from Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPR44Z	Removal of Internal Fixation Device from Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPR45Z	Removal of External Fixation Device from Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPR47Z	Removal of Autologous Tissue Substitute from Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPR48Z	Removal of Spacer from Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPR4JZ	Removal of Synthetic Substitute from Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPR4KZ	Removal of Nonautologous Tissue Substitute from Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPS00Z	Removal of Drainage Device from Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPS03Z	Removal of Infusion Device from Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPS04Z	Removal of Internal Fixation Device from Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPS05Z	Removal of External Fixation Device from Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPS07Z	Removal of Autologous Tissue Substitute from Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPS08Z	Removal of Spacer from Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPS0JZ	Removal of Synthetic Substitute from Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPS0KZ	Removal of Nonautologous Tissue Substitute from Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPS34Z	Removal of Internal Fixation Device from Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPS35Z	Removal of External Fixation Device from Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPS37Z	Removal of Autologous Tissue Substitute from Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPS3JZ	Removal of Synthetic Substitute from Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPS3KZ	Removal of Nonautologous Tissue Substitute from Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPS40Z	Removal of Drainage Device from Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPS43Z	Removal of Infusion Device from Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPS44Z	Removal of Internal Fixation Device from Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPS45Z	Removal of External Fixation Device from Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPS47Z	Removal of Autologous Tissue Substitute from Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPS48Z	Removal of Spacer from Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPS4JZ	Removal of Synthetic Substitute from Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPS4KZ	Removal of Nonautologous Tissue Substitute from Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPT00Z	Removal of Drainage Device from Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPT03Z	Removal of Infusion Device from Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPT04Z	Removal of Internal Fixation Device from Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPT05Z	Removal of External Fixation Device from Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPT07Z	Removal of Autologous Tissue Substitute from Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPT08Z	Removal of Spacer from Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPT0JZ	Removal of Synthetic Substitute from Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPT0KZ	Removal of Nonautologous Tissue Substitute from Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RPT34Z	Removal of Internal Fixation Device from Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPT35Z	Removal of External Fixation Device from Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPT37Z	Removal of Autologous Tissue Substitute from Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPT3JZ	Removal of Synthetic Substitute from Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPT3KZ	Removal of Nonautologous Tissue Substitute from Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPT40Z	Removal of Drainage Device from Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPT43Z	Removal of Infusion Device from Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPT44Z	Removal of Internal Fixation Device from Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPT45Z	Removal of External Fixation Device from Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPT47Z	Removal of Autologous Tissue Substitute from Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPT48Z	Removal of Spacer from Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPT4JZ	Removal of Synthetic Substitute from Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPT4KZ	Removal of Nonautologous Tissue Substitute from Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPU00Z	Removal of Drainage Device from Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPU03Z	Removal of Infusion Device from Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPU04Z	Removal of Internal Fixation Device from Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPU05Z	Removal of External Fixation Device from Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPU07Z	Removal of Autologous Tissue Substitute from Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPU08Z	Removal of Spacer from Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPU0JZ	Removal of Synthetic Substitute from Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPU0KZ	Removal of Nonautologous Tissue Substitute from Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPU34Z	Removal of Internal Fixation Device from Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPU35Z	Removal of External Fixation Device from Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPU37Z	Removal of Autologous Tissue Substitute from Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPU3JZ	Removal of Synthetic Substitute from Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPU3KZ	Removal of Nonautologous Tissue Substitute from Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPU40Z	Removal of Drainage Device from Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPU43Z	Removal of Infusion Device from Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPU44Z	Removal of Internal Fixation Device from Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPU45Z	Removal of External Fixation Device from Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPU47Z	Removal of Autologous Tissue Substitute from Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPU48Z	Removal of Spacer from Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPU4JZ	Removal of Synthetic Substitute from Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPU4KZ	Removal of Nonautologous Tissue Substitute from Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPV00Z	Removal of Drainage Device from Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPV03Z	Removal of Infusion Device from Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPV04Z	Removal of Internal Fixation Device from Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPV05Z	Removal of External Fixation Device from Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPV07Z	Removal of Autologous Tissue Substitute from Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPV08Z	Removal of Spacer from Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPV0JZ	Removal of Synthetic Substitute from Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPV0KZ	Removal of Nonautologous Tissue Substitute from Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPV34Z	Removal of Internal Fixation Device from Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPV35Z	Removal of External Fixation Device from Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPV37Z	Removal of Autologous Tissue Substitute from Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPV3JZ	Removal of Synthetic Substitute from Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPV3KZ	Removal of Nonautologous Tissue Substitute from Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPV40Z	Removal of Drainage Device from Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPV43Z	Removal of Infusion Device from Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPV44Z	Removal of Internal Fixation Device from Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPV45Z	Removal of External Fixation Device from Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPV47Z	Removal of Autologous Tissue Substitute from Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPV48Z	Removal of Spacer from Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPV4JZ	Removal of Synthetic Substitute from Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPV4KZ	Removal of Nonautologous Tissue Substitute from Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPW00Z	Removal of Drainage Device from Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPW03Z	Removal of Infusion Device from Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPW04Z	Removal of Internal Fixation Device from Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPW05Z	Removal of External Fixation Device from Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPW07Z	Removal of Autologous Tissue Substitute from Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPW08Z	Removal of Spacer from Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPW0JZ	Removal of Synthetic Substitute from Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPW0KZ	Removal of Nonautologous Tissue Substitute from Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPW34Z	Removal of Internal Fixation Device from Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPW35Z	Removal of External Fixation Device from Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPW37Z	Removal of Autologous Tissue Substitute from Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPW3JZ	Removal of Synthetic Substitute from Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPW3KZ	Removal of Nonautologous Tissue Substitute from Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPW40Z	Removal of Drainage Device from Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPW43Z	Removal of Infusion Device from Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPW44Z	Removal of Internal Fixation Device from Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPW45Z	Removal of External Fixation Device from Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPW47Z	Removal of Autologous Tissue Substitute from Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPW48Z	Removal of Spacer from Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPW4JZ	Removal of Synthetic Substitute from Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPW4KZ	Removal of Nonautologous Tissue Substitute from Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPX00Z	Removal of Drainage Device from Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPX03Z	Removal of Infusion Device from Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPX04Z	Removal of Internal Fixation Device from Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPX05Z	Removal of External Fixation Device from Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPX07Z	Removal of Autologous Tissue Substitute from Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPX08Z	Removal of Spacer from Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPX0JZ	Removal of Synthetic Substitute from Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPX0KZ	Removal of Nonautologous Tissue Substitute from Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RPX34Z	Removal of Internal Fixation Device from Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPX35Z	Removal of External Fixation Device from Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPX37Z	Removal of Autologous Tissue Substitute from Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPX3JZ	Removal of Synthetic Substitute from Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPX3KZ	Removal of Nonautologous Tissue Substitute from Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RPX40Z	Removal of Drainage Device from Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPX43Z	Removal of Infusion Device from Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPX44Z	Removal of Internal Fixation Device from Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPX45Z	Removal of External Fixation Device from Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RPX47Z	Removal of Autologous Tissue Substitute from Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPX48Z	Removal of Spacer from Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPX4JZ	Removal of Synthetic Substitute from Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RPX4KZ	Removal of Nonautologous Tissue Substitute from Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQ00ZZ	Repair Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RQ03ZZ	Repair Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQ04ZZ	Repair Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQ10ZZ	Repair Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RQ13ZZ	Repair Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQ14ZZ	Repair Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQ30ZZ	Repair Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RQ33ZZ	Repair Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RQ34ZZ	Repair Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQ40ZZ	Repair Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RQ43ZZ	Repair Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQ44ZZ	Repair Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQ50ZZ	Repair Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RQ53ZZ	Repair Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RQ54ZZ	Repair Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQ60ZZ	Repair Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RQ63ZZ	Repair Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQ64ZZ	Repair Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQ90ZZ	Repair Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RQ93ZZ	Repair Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RQ94ZZ	Repair Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQA0ZZ	Repair Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RQA3ZZ	Repair Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQA4ZZ	Repair Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQB0ZZ	Repair Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RQB3ZZ	Repair Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RQB4ZZ	Repair Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQC0ZZ	Repair Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RQC3ZZ	Repair Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQC4ZZ	Repair Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQD0ZZ	Repair Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RQD3ZZ	Repair Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQD4ZZ	Repair Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQE0ZZ	Repair Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RQE3ZZ	Repair Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQE4ZZ	Repair Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQF0ZZ	Repair Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RQF3ZZ	Repair Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQF4ZZ	Repair Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQG0ZZ	Repair Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RQG3ZZ	Repair Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQG4ZZ	Repair Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQH0ZZ	Repair Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RQH3ZZ	Repair Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQH4ZZ	Repair Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQJ0ZZ	Repair Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RQJ3ZZ	Repair Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQJ4ZZ	Repair Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQK0ZZ	Repair Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RQK3ZZ	Repair Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQK4ZZ	Repair Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQL0ZZ	Repair Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RQL3ZZ	Repair Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQL4ZZ	Repair Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQM0ZZ	Repair Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RQM3ZZ	Repair Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQM4ZZ	Repair Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQN0ZZ	Repair Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RQN3ZZ	Repair Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQN4ZZ	Repair Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQP0ZZ	Repair Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RQP3ZZ	Repair Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQP4ZZ	Repair Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQQ0ZZ	Repair Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RQQ3ZZ	Repair Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQQ4ZZ	Repair Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQR0ZZ	Repair Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RQR3ZZ	Repair Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQR4ZZ	Repair Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQS0ZZ	Repair Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RQS3ZZ	Repair Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQS4ZZ	Repair Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQT0ZZ	Repair Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RQT3ZZ	Repair Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQT4ZZ	Repair Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQU0ZZ	Repair Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RQU3ZZ	Repair Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQU4ZZ	Repair Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQV0ZZ	Repair Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RQV3ZZ	Repair Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQV4ZZ	Repair Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQW0ZZ	Repair Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RQW3ZZ	Repair Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQW4ZZ	Repair Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RQX0ZZ	Repair Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RQX3ZZ	Repair Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQX4ZZ	Repair Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RR007Z	Replacement of Occipital-cervical Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR00JZ	Replacement of Occipital-cervical Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RR00KZ	Replacement of Occipital-cervical Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR107Z	Replacement of Cervical Vertebral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR10JZ	Replacement of Cervical Vertebral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RR10KZ	Replacement of Cervical Vertebral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR307Z	Replacement of Cervical Vertebral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR30JZ	Replacement of Cervical Vertebral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RR30KZ	Replacement of Cervical Vertebral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR407Z	Replacement of Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR40JZ	Replacement of Cervicothoracic Vertebral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RR40KZ	Replacement of Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR507Z	Replacement of Cervicothoracic Vertebral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR50JZ	Replacement of Cervicothoracic Vertebral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RR50KZ	Replacement of Cervicothoracic Vertebral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR607Z	Replacement of Thoracic Vertebral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR60JZ	Replacement of Thoracic Vertebral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RR60KZ	Replacement of Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR907Z	Replacement of Thoracic Vertebral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RR90JZ	Replacement of Thoracic Vertebral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RR90KZ	Replacement of Thoracic Vertebral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRA07Z	Replacement of Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRA0JZ	Replacement of Thoracolumbar Vertebral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRA0KZ	Replacement of Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRB07Z	Replacement of Thoracolumbar Vertebral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRB0JZ	Replacement of Thoracolumbar Vertebral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRB0KZ	Replacement of Thoracolumbar Vertebral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRC07Z	Replacement of Right Temporomandibular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRC0JZ	Replacement of Right Temporomandibular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRC0KZ	Replacement of Right Temporomandibular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRD07Z	Replacement of Left Temporomandibular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRD0JZ	Replacement of Left Temporomandibular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRD0KZ	Replacement of Left Temporomandibular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRE07Z	Replacement of Right Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRE0JZ	Replacement of Right Sternoclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRE0KZ	Replacement of Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRF07Z	Replacement of Left Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRF0JZ	Replacement of Left Sternoclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRF0KZ	Replacement of Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRG07Z	Replacement of Right Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRG0JZ	Replacement of Right Acromioclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRG0KZ	Replacement of Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RRH07Z	Replacement of Left Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRH0JZ	Replacement of Left Acromioclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRH0KZ	Replacement of Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRJ00Z	Replacement of Right Shoulder Joint with Reverse Ball and Socket Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRJ07Z	Replacement of Right Shoulder Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRJ0J6	Replacement of Right Shoulder Joint with Synthetic Substitute, Humeral Surface, Open Approach	PX	ICD-10-PCS
0RRJ0J7	Replacement of Right Shoulder Joint with Synthetic Substitute, Glenoid Surface, Open Approach	PX	ICD-10-PCS
0RRJ0JZ	Replacement of Right Shoulder Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRJ0KZ	Replacement of Right Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRK00Z	Replacement of Left Shoulder Joint with Reverse Ball and Socket Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRK07Z	Replacement of Left Shoulder Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRK0J6	Replacement of Left Shoulder Joint with Synthetic Substitute, Humeral Surface, Open Approach	PX	ICD-10-PCS
0RRK0J7	Replacement of Left Shoulder Joint with Synthetic Substitute, Glenoid Surface, Open Approach	PX	ICD-10-PCS
0RRK0JZ	Replacement of Left Shoulder Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRK0KZ	Replacement of Left Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRL07Z	Replacement of Right Elbow Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRL0JZ	Replacement of Right Elbow Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRL0KZ	Replacement of Right Elbow Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRM07Z	Replacement of Left Elbow Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRM0JZ	Replacement of Left Elbow Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRM0KZ	Replacement of Left Elbow Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRN07Z	Replacement of Right Wrist Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRN0JZ	Replacement of Right Wrist Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRN0KZ	Replacement of Right Wrist Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRP07Z	Replacement of Left Wrist Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RRP0JZ	Replacement of Left Wrist Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRP0KZ	Replacement of Left Wrist Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRQ07Z	Replacement of Right Carpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRQ0JZ	Replacement of Right Carpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRQ0KZ	Replacement of Right Carpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRR07Z	Replacement of Left Carpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRR0JZ	Replacement of Left Carpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRR0KZ	Replacement of Left Carpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRS07Z	Replacement of Right Carpometacarpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRS0JZ	Replacement of Right Carpometacarpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRS0KZ	Replacement of Right Carpometacarpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRT07Z	Replacement of Left Carpometacarpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRT0JZ	Replacement of Left Carpometacarpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRT0KZ	Replacement of Left Carpometacarpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRU07Z	Replacement of Right Metacarpophalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRU0JZ	Replacement of Right Metacarpophalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRU0KZ	Replacement of Right Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRV07Z	Replacement of Left Metacarpophalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRV0JZ	Replacement of Left Metacarpophalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRV0KZ	Replacement of Left Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRW07Z	Replacement of Right Finger Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRW0JZ	Replacement of Right Finger Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRW0KZ	Replacement of Right Finger Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRX07Z	Replacement of Left Finger Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RRX0JZ	Replacement of Left Finger Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRX0KZ	Replacement of Left Finger Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RS004Z	Reposition Occipital-cervical Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RS00ZZ	Reposition Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RS044Z	Reposition Occipital-cervical Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RS04ZZ	Reposition Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RS104Z	Reposition Cervical Vertebral Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RS10ZZ	Reposition Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RS144Z	Reposition Cervical Vertebral Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RS14ZZ	Reposition Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RS404Z	Reposition Cervicothoracic Vertebral Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RS40ZZ	Reposition Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RS444Z	Reposition Cervicothoracic Vertebral Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RS44ZZ	Reposition Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RS604Z	Reposition Thoracic Vertebral Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RS60ZZ	Reposition Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RS644Z	Reposition Thoracic Vertebral Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RS64ZZ	Reposition Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSA04Z	Reposition Thoracolumbar Vertebral Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSA0ZZ	Reposition Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RSA44Z	Reposition Thoracolumbar Vertebral Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSA4ZZ	Reposition Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSC04Z	Reposition Right Temporomandibular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSC0ZZ	Reposition Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RSC44Z	Reposition Right Temporomandibular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSC4ZZ	Reposition Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSD04Z	Reposition Left Temporomandibular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSD0ZZ	Reposition Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RSD44Z	Reposition Left Temporomandibular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSD4ZZ	Reposition Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RSE04Z	Reposition Right Sternoclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSE0ZZ	Reposition Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RSE44Z	Reposition Right Sternoclavicular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSE4ZZ	Reposition Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSF04Z	Reposition Left Sternoclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSF0ZZ	Reposition Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RSF44Z	Reposition Left Sternoclavicular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSF4ZZ	Reposition Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSG04Z	Reposition Right Acromioclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSG0ZZ	Reposition Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RSG44Z	Reposition Right Acromioclavicular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSG4ZZ	Reposition Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSH04Z	Reposition Left Acromioclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSH0ZZ	Reposition Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RSH44Z	Reposition Left Acromioclavicular Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSH4ZZ	Reposition Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSJ04Z	Reposition Right Shoulder Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSJ0ZZ	Reposition Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RSJ44Z	Reposition Right Shoulder Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSJ4ZZ	Reposition Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSK04Z	Reposition Left Shoulder Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSK0ZZ	Reposition Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RSK44Z	Reposition Left Shoulder Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSK4ZZ	Reposition Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSL04Z	Reposition Right Elbow Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSL05Z	Reposition Right Elbow Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSL0ZZ	Reposition Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RSL44Z	Reposition Right Elbow Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSL45Z	Reposition Right Elbow Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSL4ZZ	Reposition Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSM04Z	Reposition Left Elbow Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSM05Z	Reposition Left Elbow Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSM0ZZ	Reposition Left Elbow Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RSM44Z	Reposition Left Elbow Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSM45Z	Reposition Left Elbow Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSM4ZZ	Reposition Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSN04Z	Reposition Right Wrist Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSN05Z	Reposition Right Wrist Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSN0ZZ	Reposition Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RSN44Z	Reposition Right Wrist Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSN45Z	Reposition Right Wrist Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSN4ZZ	Reposition Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSP04Z	Reposition Left Wrist Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSP05Z	Reposition Left Wrist Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSP0ZZ	Reposition Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RSP44Z	Reposition Left Wrist Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSP45Z	Reposition Left Wrist Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSP4ZZ	Reposition Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSQ04Z	Reposition Right Carpal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSQ05Z	Reposition Right Carpal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSQ0ZZ	Reposition Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RSQ44Z	Reposition Right Carpal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSQ45Z	Reposition Right Carpal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSQ4ZZ	Reposition Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSR04Z	Reposition Left Carpal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSR05Z	Reposition Left Carpal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSR0ZZ	Reposition Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RSR44Z	Reposition Left Carpal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSR45Z	Reposition Left Carpal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSR4ZZ	Reposition Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSS04Z	Reposition Right Carpometacarpal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSS05Z	Reposition Right Carpometacarpal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSS0ZZ	Reposition Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RSS44Z	Reposition Right Carpometacarpal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RSS45Z	Reposition Right Carpometacarpal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSS4ZZ	Reposition Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RST04Z	Reposition Left Carpometacarpal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RST05Z	Reposition Left Carpometacarpal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RST0ZZ	Reposition Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RST44Z	Reposition Left Carpometacarpal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RST45Z	Reposition Left Carpometacarpal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RST4ZZ	Reposition Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSU04Z	Reposition Right Metacarpophalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSU05Z	Reposition Right Metacarpophalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSU0ZZ	Reposition Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RSU44Z	Reposition Right Metacarpophalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSU45Z	Reposition Right Metacarpophalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSU4ZZ	Reposition Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSV04Z	Reposition Left Metacarpophalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSV05Z	Reposition Left Metacarpophalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSV0ZZ	Reposition Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RSV44Z	Reposition Left Metacarpophalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSV45Z	Reposition Left Metacarpophalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSV4ZZ	Reposition Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSW04Z	Reposition Right Finger Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSW05Z	Reposition Right Finger Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSW0ZZ	Reposition Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RSW44Z	Reposition Right Finger Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSW45Z	Reposition Right Finger Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSW4ZZ	Reposition Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RSX04Z	Reposition Left Finger Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0RSX05Z	Reposition Left Finger Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0RSX0ZZ	Reposition Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RSX44Z	Reposition Left Finger Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSX45Z	Reposition Left Finger Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RSX4ZZ	Reposition Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RT30ZZ	Resection of Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RT40ZZ	Resection of Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RT50ZZ	Resection of Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RT90ZZ	Resection of Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RTB0ZZ	Resection of Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RTC0ZZ	Resection of Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RTD0ZZ	Resection of Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RTE0ZZ	Resection of Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RTF0ZZ	Resection of Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RTG0ZZ	Resection of Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RTH0ZZ	Resection of Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RTJ0ZZ	Resection of Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RTK0ZZ	Resection of Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RTL0ZZ	Resection of Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RTM0ZZ	Resection of Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RTN0ZZ	Resection of Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RTP0ZZ	Resection of Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RTQ0ZZ	Resection of Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RTR0ZZ	Resection of Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RTS0ZZ	Resection of Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RTT0ZZ	Resection of Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RTU0ZZ	Resection of Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RTV0ZZ	Resection of Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RTW0ZZ	Resection of Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RTX0ZZ	Resection of Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RU007Z	Supplement Occipital-cervical Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU00JZ	Supplement Occipital-cervical Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RU00KZ	Supplement Occipital-cervical Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU037Z	Supplement Occipital-cervical Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU03JZ	Supplement Occipital-cervical Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RU03KZ	Supplement Occipital-cervical Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU047Z	Supplement Occipital-cervical Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU04JZ	Supplement Occipital-cervical Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU04KZ	Supplement Occipital-cervical Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU107Z	Supplement Cervical Vertebral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU10JZ	Supplement Cervical Vertebral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RU10KZ	Supplement Cervical Vertebral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU137Z	Supplement Cervical Vertebral Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU13JZ	Supplement Cervical Vertebral Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU13KZ	Supplement Cervical Vertebral Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU147Z	Supplement Cervical Vertebral Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU14JZ	Supplement Cervical Vertebral Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU14KZ	Supplement Cervical Vertebral Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU307Z	Supplement Cervical Vertebral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU30JZ	Supplement Cervical Vertebral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RU30KZ	Supplement Cervical Vertebral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU337Z	Supplement Cervical Vertebral Disc with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU33JZ	Supplement Cervical Vertebral Disc with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU33KZ	Supplement Cervical Vertebral Disc with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU347Z	Supplement Cervical Vertebral Disc with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU34JZ	Supplement Cervical Vertebral Disc with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU34KZ	Supplement Cervical Vertebral Disc with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU407Z	Supplement Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RU40JZ	Supplement Cervicothoracic Vertebral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RU40KZ	Supplement Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU437Z	Supplement Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU43JZ	Supplement Cervicothoracic Vertebral Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU43KZ	Supplement Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU447Z	Supplement Cervicothoracic Vertebral Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU44JZ	Supplement Cervicothoracic Vertebral Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU44KZ	Supplement Cervicothoracic Vertebral Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU507Z	Supplement Cervicothoracic Vertebral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU50JZ	Supplement Cervicothoracic Vertebral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RU50KZ	Supplement Cervicothoracic Vertebral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU537Z	Supplement Cervicothoracic Vertebral Disc with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU53JZ	Supplement Cervicothoracic Vertebral Disc with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU53KZ	Supplement Cervicothoracic Vertebral Disc with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU547Z	Supplement Cervicothoracic Vertebral Disc with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU54JZ	Supplement Cervicothoracic Vertebral Disc with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU54KZ	Supplement Cervicothoracic Vertebral Disc with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU607Z	Supplement Thoracic Vertebral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU60JZ	Supplement Thoracic Vertebral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RU60KZ	Supplement Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU637Z	Supplement Thoracic Vertebral Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU63JZ	Supplement Thoracic Vertebral Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU63KZ	Supplement Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RU647Z	Supplement Thoracic Vertebral Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU64JZ	Supplement Thoracic Vertebral Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU64KZ	Supplement Thoracic Vertebral Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU907Z	Supplement Thoracic Vertebral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU90JZ	Supplement Thoracic Vertebral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RU90KZ	Supplement Thoracic Vertebral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RU937Z	Supplement Thoracic Vertebral Disc with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU93JZ	Supplement Thoracic Vertebral Disc with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU93KZ	Supplement Thoracic Vertebral Disc with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RU947Z	Supplement Thoracic Vertebral Disc with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU94JZ	Supplement Thoracic Vertebral Disc with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RU94KZ	Supplement Thoracic Vertebral Disc with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUA07Z	Supplement Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUA0JZ	Supplement Thoracolumbar Vertebral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUA0KZ	Supplement Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUA37Z	Supplement Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUA3JZ	Supplement Thoracolumbar Vertebral Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUA3KZ	Supplement Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUA47Z	Supplement Thoracolumbar Vertebral Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUA4JZ	Supplement Thoracolumbar Vertebral Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUA4KZ	Supplement Thoracolumbar Vertebral Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUB07Z	Supplement Thoracolumbar Vertebral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUB0JZ	Supplement Thoracolumbar Vertebral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RUB0KZ	Supplement Thoracolumbar Vertebral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUB37Z	Supplement Thoracolumbar Vertebral Disc with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUB3JZ	Supplement Thoracolumbar Vertebral Disc with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUB3KZ	Supplement Thoracolumbar Vertebral Disc with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUB47Z	Supplement Thoracolumbar Vertebral Disc with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUB4JZ	Supplement Thoracolumbar Vertebral Disc with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUB4KZ	Supplement Thoracolumbar Vertebral Disc with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUC07Z	Supplement Right Temporomandibular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUC0JZ	Supplement Right Temporomandibular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUC0KZ	Supplement Right Temporomandibular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUC37Z	Supplement Right Temporomandibular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUC3JZ	Supplement Right Temporomandibular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUC3KZ	Supplement Right Temporomandibular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUC47Z	Supplement Right Temporomandibular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUC4JZ	Supplement Right Temporomandibular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUC4KZ	Supplement Right Temporomandibular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUD07Z	Supplement Left Temporomandibular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUD0JZ	Supplement Left Temporomandibular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUD0KZ	Supplement Left Temporomandibular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUD37Z	Supplement Left Temporomandibular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUD3JZ	Supplement Left Temporomandibular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUD3KZ	Supplement Left Temporomandibular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RUD47Z	Supplement Left Temporomandibular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUD4JZ	Supplement Left Temporomandibular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUD4KZ	Supplement Left Temporomandibular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUE07Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUE0JZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUE0KZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUE37Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUE3JZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUE3KZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUE47Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUE4JZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUE4KZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUF07Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUF0JZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUF0KZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUF37Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUF3JZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUF3KZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUF47Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUF4JZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUF4KZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUG07Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RUG0JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUG0KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUG37Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUG3JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUG3KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUG47Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUG4JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUG4KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUH07Z	Supplement Left Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUH0JZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUH0KZ	Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUH37Z	Supplement Left Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUH3JZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUH3KZ	Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUH47Z	Supplement Left Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUH4JZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUH4KZ	Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUJ07Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUJ0JZ	Supplement Right Shoulder Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUJ0KZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUJ37Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUJ3JZ	Supplement Right Shoulder Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUJ3KZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RUJ47Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUJ4JZ	Supplement Right Shoulder Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUJ4KZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUK07Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUK0JZ	Supplement Left Shoulder Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUK0KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUK37Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUK3JZ	Supplement Left Shoulder Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUK3KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUK47Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUK4JZ	Supplement Left Shoulder Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUK4KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUL07Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUL0JZ	Supplement Right Elbow Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUL0KZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUL37Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUL3JZ	Supplement Right Elbow Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUL3KZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUL47Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUL4JZ	Supplement Right Elbow Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUL4KZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUM07Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUM0JZ	Supplement Left Elbow Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUM0KZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RUM37Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUM3JZ	Supplement Left Elbow Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUM3KZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUM47Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUM4JZ	Supplement Left Elbow Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUM4KZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUN07Z	Supplement Right Wrist Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUN0JZ	Supplement Right Wrist Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUN0KZ	Supplement Right Wrist Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUN37Z	Supplement Right Wrist Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUN3JZ	Supplement Right Wrist Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUN3KZ	Supplement Right Wrist Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUN47Z	Supplement Right Wrist Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUN4JZ	Supplement Right Wrist Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUN4KZ	Supplement Right Wrist Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUP07Z	Supplement Left Wrist Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUP0JZ	Supplement Left Wrist Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUP0KZ	Supplement Left Wrist Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUP37Z	Supplement Left Wrist Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUP3JZ	Supplement Left Wrist Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUP3KZ	Supplement Left Wrist Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUP47Z	Supplement Left Wrist Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUP4JZ	Supplement Left Wrist Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUP4KZ	Supplement Left Wrist Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUQ07Z	Supplement Right Carpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUQ0JZ	Supplement Right Carpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RUQ0KZ	Supplement Right Carpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUQ37Z	Supplement Right Carpal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUQ3JZ	Supplement Right Carpal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUQ3KZ	Supplement Right Carpal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUQ47Z	Supplement Right Carpal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUQ4JZ	Supplement Right Carpal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUQ4KZ	Supplement Right Carpal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUR07Z	Supplement Left Carpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUR0JZ	Supplement Left Carpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUR0KZ	Supplement Left Carpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUR37Z	Supplement Left Carpal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUR3JZ	Supplement Left Carpal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUR3KZ	Supplement Left Carpal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUR47Z	Supplement Left Carpal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUR4JZ	Supplement Left Carpal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUR4KZ	Supplement Left Carpal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUS07Z	Supplement Right Carpometacarpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUS0JZ	Supplement Right Carpometacarpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUS0KZ	Supplement Right Carpometacarpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUS37Z	Supplement Right Carpometacarpal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUS3JZ	Supplement Right Carpometacarpal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUS3KZ	Supplement Right Carpometacarpal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUS47Z	Supplement Right Carpometacarpal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RUS4JZ	Supplement Right Carpometacarpal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUS4KZ	Supplement Right Carpometacarpal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUT07Z	Supplement Left Carpometacarpal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUT0JZ	Supplement Left Carpometacarpal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUT0KZ	Supplement Left Carpometacarpal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUT37Z	Supplement Left Carpometacarpal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUT3JZ	Supplement Left Carpometacarpal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUT3KZ	Supplement Left Carpometacarpal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUT47Z	Supplement Left Carpometacarpal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUT4JZ	Supplement Left Carpometacarpal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUT4KZ	Supplement Left Carpometacarpal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUU07Z	Supplement Right Metacarpophalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUU0JZ	Supplement Right Metacarpophalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUU0KZ	Supplement Right Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUU37Z	Supplement Right Metacarpophalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUU3JZ	Supplement Right Metacarpophalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUU3KZ	Supplement Right Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUU47Z	Supplement Right Metacarpophalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUU4JZ	Supplement Right Metacarpophalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUU4KZ	Supplement Right Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUV07Z	Supplement Left Metacarpophalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUV0JZ	Supplement Left Metacarpophalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RUV0KZ	Supplement Left Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUV37Z	Supplement Left Metacarpophalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUV3JZ	Supplement Left Metacarpophalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUV3KZ	Supplement Left Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUV47Z	Supplement Left Metacarpophalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUV4JZ	Supplement Left Metacarpophalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUV4KZ	Supplement Left Metacarpophalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUW07Z	Supplement Right Finger Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUW0JZ	Supplement Right Finger Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUW0KZ	Supplement Right Finger Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUW37Z	Supplement Right Finger Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUW3JZ	Supplement Right Finger Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUW3KZ	Supplement Right Finger Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUW47Z	Supplement Right Finger Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUW4JZ	Supplement Right Finger Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUW4KZ	Supplement Right Finger Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUX07Z	Supplement Left Finger Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUX0JZ	Supplement Left Finger Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUX0KZ	Supplement Left Finger Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUX37Z	Supplement Left Finger Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUX3JZ	Supplement Left Finger Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUX3KZ	Supplement Left Finger Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RUX47Z	Supplement Left Finger Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUX4JZ	Supplement Left Finger Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RUX4KZ	Supplement Left Finger Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW000Z	Revision of Drainage Device in Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RW003Z	Revision of Infusion Device in Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RW004Z	Revision of Internal Fixation Device in Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RW007Z	Revision of Autologous Tissue Substitute in Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RW008Z	Revision of Spacer in Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RW00AZ	Revision of Interbody Fusion Device in Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RW00JZ	Revision of Synthetic Substitute in Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RW00KZ	Revision of Nonautologous Tissue Substitute in Occipital-cervical Joint, Open Approach	PX	ICD-10-PCS
0RW030Z	Revision of Drainage Device in Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW033Z	Revision of Infusion Device in Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW034Z	Revision of Internal Fixation Device in Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW037Z	Revision of Autologous Tissue Substitute in Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW038Z	Revision of Spacer in Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW03AZ	Revision of Interbody Fusion Device in Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW03JZ	Revision of Synthetic Substitute in Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW03KZ	Revision of Nonautologous Tissue Substitute in Occipital-cervical Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW040Z	Revision of Drainage Device in Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW043Z	Revision of Infusion Device in Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW044Z	Revision of Internal Fixation Device in Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW047Z	Revision of Autologous Tissue Substitute in Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW048Z	Revision of Spacer in Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW04AZ	Revision of Interbody Fusion Device in Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW04JZ	Revision of Synthetic Substitute in Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW04KZ	Revision of Nonautologous Tissue Substitute in Occipital-cervical Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RW100Z	Revision of Drainage Device in Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW103Z	Revision of Infusion Device in Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW104Z	Revision of Internal Fixation Device in Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW107Z	Revision of Autologous Tissue Substitute in Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW108Z	Revision of Spacer in Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW10AZ	Revision of Interbody Fusion Device in Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW10JZ	Revision of Synthetic Substitute in Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW10KZ	Revision of Nonautologous Tissue Substitute in Cervical Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW130Z	Revision of Drainage Device in Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW133Z	Revision of Infusion Device in Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW134Z	Revision of Internal Fixation Device in Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW137Z	Revision of Autologous Tissue Substitute in Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW138Z	Revision of Spacer in Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW13AZ	Revision of Interbody Fusion Device in Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW13JZ	Revision of Synthetic Substitute in Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW13KZ	Revision of Nonautologous Tissue Substitute in Cervical Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW140Z	Revision of Drainage Device in Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW143Z	Revision of Infusion Device in Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW144Z	Revision of Internal Fixation Device in Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW147Z	Revision of Autologous Tissue Substitute in Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW148Z	Revision of Spacer in Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW14AZ	Revision of Interbody Fusion Device in Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW14JZ	Revision of Synthetic Substitute in Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW14KZ	Revision of Nonautologous Tissue Substitute in Cervical Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW300Z	Revision of Drainage Device in Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW303Z	Revision of Infusion Device in Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW307Z	Revision of Autologous Tissue Substitute in Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW30JZ	Revision of Synthetic Substitute in Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RW30KZ	Revision of Nonautologous Tissue Substitute in Cervical Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW330Z	Revision of Drainage Device in Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW333Z	Revision of Infusion Device in Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW337Z	Revision of Autologous Tissue Substitute in Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW33JZ	Revision of Synthetic Substitute in Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW33KZ	Revision of Nonautologous Tissue Substitute in Cervical Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW340Z	Revision of Drainage Device in Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW343Z	Revision of Infusion Device in Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW347Z	Revision of Autologous Tissue Substitute in Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW34JZ	Revision of Synthetic Substitute in Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW34KZ	Revision of Nonautologous Tissue Substitute in Cervical Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW400Z	Revision of Drainage Device in Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW403Z	Revision of Infusion Device in Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW404Z	Revision of Internal Fixation Device in Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW407Z	Revision of Autologous Tissue Substitute in Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW408Z	Revision of Spacer in Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW40AZ	Revision of Interbody Fusion Device in Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW40JZ	Revision of Synthetic Substitute in Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW40KZ	Revision of Nonautologous Tissue Substitute in Cervicothoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW430Z	Revision of Drainage Device in Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW433Z	Revision of Infusion Device in Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW434Z	Revision of Internal Fixation Device in Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW437Z	Revision of Autologous Tissue Substitute in Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW438Z	Revision of Spacer in Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW43AZ	Revision of Interbody Fusion Device in Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RW43JZ	Revision of Synthetic Substitute in Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW43KZ	Revision of Nonautologous Tissue Substitute in Cervicothoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW440Z	Revision of Drainage Device in Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW443Z	Revision of Infusion Device in Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW444Z	Revision of Internal Fixation Device in Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW447Z	Revision of Autologous Tissue Substitute in Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW448Z	Revision of Spacer in Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW44AZ	Revision of Interbody Fusion Device in Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW44JZ	Revision of Synthetic Substitute in Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW44KZ	Revision of Nonautologous Tissue Substitute in Cervicothoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW500Z	Revision of Drainage Device in Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW503Z	Revision of Infusion Device in Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW507Z	Revision of Autologous Tissue Substitute in Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW50JZ	Revision of Synthetic Substitute in Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW50KZ	Revision of Nonautologous Tissue Substitute in Cervicothoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW530Z	Revision of Drainage Device in Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW533Z	Revision of Infusion Device in Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW537Z	Revision of Autologous Tissue Substitute in Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW53JZ	Revision of Synthetic Substitute in Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW53KZ	Revision of Nonautologous Tissue Substitute in Cervicothoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW540Z	Revision of Drainage Device in Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW543Z	Revision of Infusion Device in Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW547Z	Revision of Autologous Tissue Substitute in Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RW54JZ	Revision of Synthetic Substitute in Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW54KZ	Revision of Nonautologous Tissue Substitute in Cervicothoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW600Z	Revision of Drainage Device in Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW603Z	Revision of Infusion Device in Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW604Z	Revision of Internal Fixation Device in Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW607Z	Revision of Autologous Tissue Substitute in Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW608Z	Revision of Spacer in Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW60AZ	Revision of Interbody Fusion Device in Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW60JZ	Revision of Synthetic Substitute in Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW60KZ	Revision of Nonautologous Tissue Substitute in Thoracic Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RW630Z	Revision of Drainage Device in Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW633Z	Revision of Infusion Device in Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW634Z	Revision of Internal Fixation Device in Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW637Z	Revision of Autologous Tissue Substitute in Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW638Z	Revision of Spacer in Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW63AZ	Revision of Interbody Fusion Device in Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW63JZ	Revision of Synthetic Substitute in Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW63KZ	Revision of Nonautologous Tissue Substitute in Thoracic Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RW640Z	Revision of Drainage Device in Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW643Z	Revision of Infusion Device in Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW644Z	Revision of Internal Fixation Device in Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW647Z	Revision of Autologous Tissue Substitute in Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW648Z	Revision of Spacer in Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW64AZ	Revision of Interbody Fusion Device in Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW64JZ	Revision of Synthetic Substitute in Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW64KZ	Revision of Nonautologous Tissue Substitute in Thoracic Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW900Z	Revision of Drainage Device in Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW903Z	Revision of Infusion Device in Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RW907Z	Revision of Autologous Tissue Substitute in Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW90JZ	Revision of Synthetic Substitute in Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW90KZ	Revision of Nonautologous Tissue Substitute in Thoracic Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RW930Z	Revision of Drainage Device in Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW933Z	Revision of Infusion Device in Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW937Z	Revision of Autologous Tissue Substitute in Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW93JZ	Revision of Synthetic Substitute in Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW93KZ	Revision of Nonautologous Tissue Substitute in Thoracic Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RW940Z	Revision of Drainage Device in Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW943Z	Revision of Infusion Device in Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW947Z	Revision of Autologous Tissue Substitute in Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW94JZ	Revision of Synthetic Substitute in Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RW94KZ	Revision of Nonautologous Tissue Substitute in Thoracic Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWA00Z	Revision of Drainage Device in Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RWA03Z	Revision of Infusion Device in Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RWA04Z	Revision of Internal Fixation Device in Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RWA07Z	Revision of Autologous Tissue Substitute in Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RWA08Z	Revision of Spacer in Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RWA0AZ	Revision of Interbody Fusion Device in Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RWA0JZ	Revision of Synthetic Substitute in Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RWA0KZ	Revision of Nonautologous Tissue Substitute in Thoracolumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0RWA30Z	Revision of Drainage Device in Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWA33Z	Revision of Infusion Device in Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWA34Z	Revision of Internal Fixation Device in Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWA37Z	Revision of Autologous Tissue Substitute in Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWA38Z	Revision of Spacer in Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWA3AZ	Revision of Interbody Fusion Device in Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWA3JZ	Revision of Synthetic Substitute in Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWA3KZ	Revision of Nonautologous Tissue Substitute in Thoracolumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWA40Z	Revision of Drainage Device in Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWA43Z	Revision of Infusion Device in Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWA44Z	Revision of Internal Fixation Device in Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWA47Z	Revision of Autologous Tissue Substitute in Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWA48Z	Revision of Spacer in Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWA4AZ	Revision of Interbody Fusion Device in Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWA4JZ	Revision of Synthetic Substitute in Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWA4KZ	Revision of Nonautologous Tissue Substitute in Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWB00Z	Revision of Drainage Device in Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RWB03Z	Revision of Infusion Device in Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RWB07Z	Revision of Autologous Tissue Substitute in Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RWB0JZ	Revision of Synthetic Substitute in Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RWB0KZ	Revision of Nonautologous Tissue Substitute in Thoracolumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0RWB30Z	Revision of Drainage Device in Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RWB33Z	Revision of Infusion Device in Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RWB37Z	Revision of Autologous Tissue Substitute in Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RWB3JZ	Revision of Synthetic Substitute in Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RWB3KZ	Revision of Nonautologous Tissue Substitute in Thoracolumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0RWB40Z	Revision of Drainage Device in Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWB43Z	Revision of Infusion Device in Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWB47Z	Revision of Autologous Tissue Substitute in Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWB4JZ	Revision of Synthetic Substitute in Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWB4KZ	Revision of Nonautologous Tissue Substitute in Thoracolumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWC00Z	Revision of Drainage Device in Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWC03Z	Revision of Infusion Device in Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWC04Z	Revision of Internal Fixation Device in Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWC07Z	Revision of Autologous Tissue Substitute in Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWC08Z	Revision of Spacer in Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWC0JZ	Revision of Synthetic Substitute in Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWC0KZ	Revision of Nonautologous Tissue Substitute in Right Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWC30Z	Revision of Drainage Device in Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWC33Z	Revision of Infusion Device in Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWC34Z	Revision of Internal Fixation Device in Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWC37Z	Revision of Autologous Tissue Substitute in Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWC38Z	Revision of Spacer in Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWC3JZ	Revision of Synthetic Substitute in Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWC3KZ	Revision of Nonautologous Tissue Substitute in Right Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWC40Z	Revision of Drainage Device in Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWC43Z	Revision of Infusion Device in Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWC44Z	Revision of Internal Fixation Device in Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWC47Z	Revision of Autologous Tissue Substitute in Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWC48Z	Revision of Spacer in Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWC4JZ	Revision of Synthetic Substitute in Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWC4KZ	Revision of Nonautologous Tissue Substitute in Right Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWD00Z	Revision of Drainage Device in Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWD03Z	Revision of Infusion Device in Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWD04Z	Revision of Internal Fixation Device in Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWD07Z	Revision of Autologous Tissue Substitute in Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWD08Z	Revision of Spacer in Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWD0JZ	Revision of Synthetic Substitute in Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWD0KZ	Revision of Nonautologous Tissue Substitute in Left Temporomandibular Joint, Open Approach	PX	ICD-10-PCS
0RWD30Z	Revision of Drainage Device in Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWD33Z	Revision of Infusion Device in Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWD34Z	Revision of Internal Fixation Device in Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWD37Z	Revision of Autologous Tissue Substitute in Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWD38Z	Revision of Spacer in Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWD3JZ	Revision of Synthetic Substitute in Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWD3KZ	Revision of Nonautologous Tissue Substitute in Left Temporomandibular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWD40Z	Revision of Drainage Device in Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWD43Z	Revision of Infusion Device in Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWD44Z	Revision of Internal Fixation Device in Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWD47Z	Revision of Autologous Tissue Substitute in Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWD48Z	Revision of Spacer in Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWD4JZ	Revision of Synthetic Substitute in Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWD4KZ	Revision of Nonautologous Tissue Substitute in Left Temporomandibular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWE00Z	Revision of Drainage Device in Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWE03Z	Revision of Infusion Device in Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWE04Z	Revision of Internal Fixation Device in Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWE07Z	Revision of Autologous Tissue Substitute in Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWE08Z	Revision of Spacer in Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWE0JZ	Revision of Synthetic Substitute in Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWE0KZ	Revision of Nonautologous Tissue Substitute in Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWE30Z	Revision of Drainage Device in Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWE33Z	Revision of Infusion Device in Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWE34Z	Revision of Internal Fixation Device in Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWE37Z	Revision of Autologous Tissue Substitute in Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWE38Z	Revision of Spacer in Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWE3JZ	Revision of Synthetic Substitute in Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWE3KZ	Revision of Nonautologous Tissue Substitute in Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWE40Z	Revision of Drainage Device in Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWE43Z	Revision of Infusion Device in Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWE44Z	Revision of Internal Fixation Device in Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWE47Z	Revision of Autologous Tissue Substitute in Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWE48Z	Revision of Spacer in Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWE4JZ	Revision of Synthetic Substitute in Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWE4KZ	Revision of Nonautologous Tissue Substitute in Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWF00Z	Revision of Drainage Device in Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWF03Z	Revision of Infusion Device in Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWF04Z	Revision of Internal Fixation Device in Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWF07Z	Revision of Autologous Tissue Substitute in Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWF08Z	Revision of Spacer in Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWF0JZ	Revision of Synthetic Substitute in Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWF0KZ	Revision of Nonautologous Tissue Substitute in Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWF30Z	Revision of Drainage Device in Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWF33Z	Revision of Infusion Device in Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWF34Z	Revision of Internal Fixation Device in Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWF37Z	Revision of Autologous Tissue Substitute in Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWF38Z	Revision of Spacer in Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWF3JZ	Revision of Synthetic Substitute in Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWF3KZ	Revision of Nonautologous Tissue Substitute in Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWF40Z	Revision of Drainage Device in Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWF43Z	Revision of Infusion Device in Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWF44Z	Revision of Internal Fixation Device in Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWF47Z	Revision of Autologous Tissue Substitute in Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWF48Z	Revision of Spacer in Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWF4JZ	Revision of Synthetic Substitute in Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWF4KZ	Revision of Nonautologous Tissue Substitute in Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWG00Z	Revision of Drainage Device in Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWG03Z	Revision of Infusion Device in Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWG04Z	Revision of Internal Fixation Device in Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWG07Z	Revision of Autologous Tissue Substitute in Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWG08Z	Revision of Spacer in Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWG0JZ	Revision of Synthetic Substitute in Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWG0KZ	Revision of Nonautologous Tissue Substitute in Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWG30Z	Revision of Drainage Device in Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWG33Z	Revision of Infusion Device in Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWG34Z	Revision of Internal Fixation Device in Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWG37Z	Revision of Autologous Tissue Substitute in Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWG38Z	Revision of Spacer in Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWG3JZ	Revision of Synthetic Substitute in Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWG3KZ	Revision of Nonautologous Tissue Substitute in Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWG40Z	Revision of Drainage Device in Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWG43Z	Revision of Infusion Device in Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWG44Z	Revision of Internal Fixation Device in Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWG47Z	Revision of Autologous Tissue Substitute in Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWG48Z	Revision of Spacer in Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWG4JZ	Revision of Synthetic Substitute in Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWG4KZ	Revision of Nonautologous Tissue Substitute in Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWH00Z	Revision of Drainage Device in Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWH03Z	Revision of Infusion Device in Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWH04Z	Revision of Internal Fixation Device in Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWH07Z	Revision of Autologous Tissue Substitute in Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWH08Z	Revision of Spacer in Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWH0JZ	Revision of Synthetic Substitute in Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWH0KZ	Revision of Nonautologous Tissue Substitute in Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RWH30Z	Revision of Drainage Device in Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWH33Z	Revision of Infusion Device in Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWH34Z	Revision of Internal Fixation Device in Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWH37Z	Revision of Autologous Tissue Substitute in Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWH38Z	Revision of Spacer in Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWH3JZ	Revision of Synthetic Substitute in Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWH3KZ	Revision of Nonautologous Tissue Substitute in Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWH40Z	Revision of Drainage Device in Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWH43Z	Revision of Infusion Device in Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWH44Z	Revision of Internal Fixation Device in Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWH47Z	Revision of Autologous Tissue Substitute in Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWH48Z	Revision of Spacer in Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWH4JZ	Revision of Synthetic Substitute in Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWH4KZ	Revision of Nonautologous Tissue Substitute in Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWJ00Z	Revision of Drainage Device in Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWJ03Z	Revision of Infusion Device in Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWJ04Z	Revision of Internal Fixation Device in Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWJ07Z	Revision of Autologous Tissue Substitute in Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWJ08Z	Revision of Spacer in Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWJ0J6	Revision of Synthetic Substitute in Right Shoulder Joint, Humeral Surface, Open Approach	PX	ICD-10-PCS
0RWJ0J7	Revision of Synthetic Substitute in Right Shoulder Joint, Glenoid Surface, Open Approach	PX	ICD-10-PCS
0RWJ0JZ	Revision of Synthetic Substitute in Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWJ0KZ	Revision of Nonautologous Tissue Substitute in Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWJ30Z	Revision of Drainage Device in Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWJ33Z	Revision of Infusion Device in Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWJ34Z	Revision of Internal Fixation Device in Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWJ37Z	Revision of Autologous Tissue Substitute in Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWJ38Z	Revision of Spacer in Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWJ3J6	Revision of Synthetic Substitute in Right Shoulder Joint, Humeral Surface, Percutaneous Approach	PX	ICD-10-PCS
0RWJ3J7	Revision of Synthetic Substitute in Right Shoulder Joint, Glenoid Surface, Percutaneous Approach	PX	ICD-10-PCS
0RWJ3JZ	Revision of Synthetic Substitute in Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWJ3KZ	Revision of Nonautologous Tissue Substitute in Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWJ40Z	Revision of Drainage Device in Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWJ43Z	Revision of Infusion Device in Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWJ44Z	Revision of Internal Fixation Device in Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWJ47Z	Revision of Autologous Tissue Substitute in Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWJ48Z	Revision of Spacer in Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWJ4J6	Revision of Synthetic Substitute in Right Shoulder Joint, Humeral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWJ4J7	Revision of Synthetic Substitute in Right Shoulder Joint, Glenoid Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWJ4JZ	Revision of Synthetic Substitute in Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWJ4KZ	Revision of Nonautologous Tissue Substitute in Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWK00Z	Revision of Drainage Device in Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWK03Z	Revision of Infusion Device in Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWK04Z	Revision of Internal Fixation Device in Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWK07Z	Revision of Autologous Tissue Substitute in Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWK08Z	Revision of Spacer in Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWK0J6	Revision of Synthetic Substitute in Left Shoulder Joint, Humeral Surface, Open Approach	PX	ICD-10-PCS
0RWK0J7	Revision of Synthetic Substitute in Left Shoulder Joint, Glenoid Surface, Open Approach	PX	ICD-10-PCS
0RWK0JZ	Revision of Synthetic Substitute in Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWK0KZ	Revision of Nonautologous Tissue Substitute in Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
0RWK30Z	Revision of Drainage Device in Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWK33Z	Revision of Infusion Device in Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWK34Z	Revision of Internal Fixation Device in Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWK37Z	Revision of Autologous Tissue Substitute in Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWK38Z	Revision of Spacer in Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWK3J6	Revision of Synthetic Substitute in Left Shoulder Joint, Humeral Surface, Percutaneous Approach	PX	ICD-10-PCS
0RWK3J7	Revision of Synthetic Substitute in Left Shoulder Joint, Glenoid Surface, Percutaneous Approach	PX	ICD-10-PCS
0RWK3JZ	Revision of Synthetic Substitute in Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWK3KZ	Revision of Nonautologous Tissue Substitute in Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWK40Z	Revision of Drainage Device in Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWK43Z	Revision of Infusion Device in Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWK44Z	Revision of Internal Fixation Device in Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWK47Z	Revision of Autologous Tissue Substitute in Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWK48Z	Revision of Spacer in Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWK4J6	Revision of Synthetic Substitute in Left Shoulder Joint, Humeral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWK4J7	Revision of Synthetic Substitute in Left Shoulder Joint, Glenoid Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWK4JZ	Revision of Synthetic Substitute in Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWK4KZ	Revision of Nonautologous Tissue Substitute in Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWL00Z	Revision of Drainage Device in Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWL03Z	Revision of Infusion Device in Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWL04Z	Revision of Internal Fixation Device in Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWL05Z	Revision of External Fixation Device in Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWL07Z	Revision of Autologous Tissue Substitute in Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWL08Z	Revision of Spacer in Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWL0JZ	Revision of Synthetic Substitute in Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWL0KZ	Revision of Nonautologous Tissue Substitute in Right Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWL30Z	Revision of Drainage Device in Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWL33Z	Revision of Infusion Device in Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWL34Z	Revision of Internal Fixation Device in Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWL35Z	Revision of External Fixation Device in Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWL37Z	Revision of Autologous Tissue Substitute in Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWL38Z	Revision of Spacer in Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWL3JZ	Revision of Synthetic Substitute in Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWL3KZ	Revision of Nonautologous Tissue Substitute in Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWL40Z	Revision of Drainage Device in Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWL43Z	Revision of Infusion Device in Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWL44Z	Revision of Internal Fixation Device in Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWL45Z	Revision of External Fixation Device in Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWL47Z	Revision of Autologous Tissue Substitute in Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWL48Z	Revision of Spacer in Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWL4JZ	Revision of Synthetic Substitute in Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWL4KZ	Revision of Nonautologous Tissue Substitute in Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWM00Z	Revision of Drainage Device in Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWM03Z	Revision of Infusion Device in Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWM04Z	Revision of Internal Fixation Device in Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWM05Z	Revision of External Fixation Device in Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWM07Z	Revision of Autologous Tissue Substitute in Left Elbow Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWM08Z	Revision of Spacer in Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWM0JZ	Revision of Synthetic Substitute in Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWM0KZ	Revision of Nonautologous Tissue Substitute in Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RWM30Z	Revision of Drainage Device in Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWM33Z	Revision of Infusion Device in Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWM34Z	Revision of Internal Fixation Device in Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWM35Z	Revision of External Fixation Device in Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWM37Z	Revision of Autologous Tissue Substitute in Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWM38Z	Revision of Spacer in Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWM3JZ	Revision of Synthetic Substitute in Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWM3KZ	Revision of Nonautologous Tissue Substitute in Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWM40Z	Revision of Drainage Device in Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWM43Z	Revision of Infusion Device in Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWM44Z	Revision of Internal Fixation Device in Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWM45Z	Revision of External Fixation Device in Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWM47Z	Revision of Autologous Tissue Substitute in Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWM48Z	Revision of Spacer in Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWM4JZ	Revision of Synthetic Substitute in Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWM4KZ	Revision of Nonautologous Tissue Substitute in Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWN00Z	Revision of Drainage Device in Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWN03Z	Revision of Infusion Device in Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWN04Z	Revision of Internal Fixation Device in Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWN05Z	Revision of External Fixation Device in Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWN07Z	Revision of Autologous Tissue Substitute in Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWN08Z	Revision of Spacer in Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWN0JZ	Revision of Synthetic Substitute in Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWN0KZ	Revision of Nonautologous Tissue Substitute in Right Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWN30Z	Revision of Drainage Device in Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWN33Z	Revision of Infusion Device in Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWN34Z	Revision of Internal Fixation Device in Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWN35Z	Revision of External Fixation Device in Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWN37Z	Revision of Autologous Tissue Substitute in Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWN38Z	Revision of Spacer in Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWN3JZ	Revision of Synthetic Substitute in Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWN3KZ	Revision of Nonautologous Tissue Substitute in Right Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWN40Z	Revision of Drainage Device in Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWN43Z	Revision of Infusion Device in Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWN44Z	Revision of Internal Fixation Device in Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWN45Z	Revision of External Fixation Device in Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWN47Z	Revision of Autologous Tissue Substitute in Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWN48Z	Revision of Spacer in Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWN4JZ	Revision of Synthetic Substitute in Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWN4KZ	Revision of Nonautologous Tissue Substitute in Right Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWP00Z	Revision of Drainage Device in Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWP03Z	Revision of Infusion Device in Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWP04Z	Revision of Internal Fixation Device in Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWP05Z	Revision of External Fixation Device in Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWP07Z	Revision of Autologous Tissue Substitute in Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWP08Z	Revision of Spacer in Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWP0JZ	Revision of Synthetic Substitute in Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWP0KZ	Revision of Nonautologous Tissue Substitute in Left Wrist Joint, Open Approach	PX	ICD-10-PCS
0RWP30Z	Revision of Drainage Device in Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWP33Z	Revision of Infusion Device in Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWP34Z	Revision of Internal Fixation Device in Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWP35Z	Revision of External Fixation Device in Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWP37Z	Revision of Autologous Tissue Substitute in Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWP38Z	Revision of Spacer in Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWP3JZ	Revision of Synthetic Substitute in Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWP3KZ	Revision of Nonautologous Tissue Substitute in Left Wrist Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWP40Z	Revision of Drainage Device in Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWP43Z	Revision of Infusion Device in Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWP44Z	Revision of Internal Fixation Device in Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWP45Z	Revision of External Fixation Device in Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWP47Z	Revision of Autologous Tissue Substitute in Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWP48Z	Revision of Spacer in Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWP4JZ	Revision of Synthetic Substitute in Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWP4KZ	Revision of Nonautologous Tissue Substitute in Left Wrist Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWQ00Z	Revision of Drainage Device in Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWQ03Z	Revision of Infusion Device in Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWQ04Z	Revision of Internal Fixation Device in Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWQ05Z	Revision of External Fixation Device in Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWQ07Z	Revision of Autologous Tissue Substitute in Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWQ08Z	Revision of Spacer in Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWQ0JZ	Revision of Synthetic Substitute in Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWQ0KZ	Revision of Nonautologous Tissue Substitute in Right Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWQ30Z	Revision of Drainage Device in Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWQ33Z	Revision of Infusion Device in Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWQ34Z	Revision of Internal Fixation Device in Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWQ35Z	Revision of External Fixation Device in Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWQ37Z	Revision of Autologous Tissue Substitute in Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWQ38Z	Revision of Spacer in Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWQ3JZ	Revision of Synthetic Substitute in Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWQ3KZ	Revision of Nonautologous Tissue Substitute in Right Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWQ40Z	Revision of Drainage Device in Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWQ43Z	Revision of Infusion Device in Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWQ44Z	Revision of Internal Fixation Device in Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWQ45Z	Revision of External Fixation Device in Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWQ47Z	Revision of Autologous Tissue Substitute in Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWQ48Z	Revision of Spacer in Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWQ4JZ	Revision of Synthetic Substitute in Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWQ4KZ	Revision of Nonautologous Tissue Substitute in Right Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWR00Z	Revision of Drainage Device in Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWR03Z	Revision of Infusion Device in Left Carpal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWR04Z	Revision of Internal Fixation Device in Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWR05Z	Revision of External Fixation Device in Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWR07Z	Revision of Autologous Tissue Substitute in Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWR08Z	Revision of Spacer in Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWR0JZ	Revision of Synthetic Substitute in Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWR0KZ	Revision of Nonautologous Tissue Substitute in Left Carpal Joint, Open Approach	PX	ICD-10-PCS
0RWR30Z	Revision of Drainage Device in Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWR33Z	Revision of Infusion Device in Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWR34Z	Revision of Internal Fixation Device in Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWR35Z	Revision of External Fixation Device in Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWR37Z	Revision of Autologous Tissue Substitute in Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWR38Z	Revision of Spacer in Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWR3JZ	Revision of Synthetic Substitute in Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWR3KZ	Revision of Nonautologous Tissue Substitute in Left Carpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWR40Z	Revision of Drainage Device in Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWR43Z	Revision of Infusion Device in Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWR44Z	Revision of Internal Fixation Device in Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWR45Z	Revision of External Fixation Device in Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWR47Z	Revision of Autologous Tissue Substitute in Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWR48Z	Revision of Spacer in Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWR4JZ	Revision of Synthetic Substitute in Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWR4KZ	Revision of Nonautologous Tissue Substitute in Left Carpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWS00Z	Revision of Drainage Device in Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWS03Z	Revision of Infusion Device in Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWS04Z	Revision of Internal Fixation Device in Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWS05Z	Revision of External Fixation Device in Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWS07Z	Revision of Autologous Tissue Substitute in Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWS08Z	Revision of Spacer in Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWS0JZ	Revision of Synthetic Substitute in Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWS0KZ	Revision of Nonautologous Tissue Substitute in Right Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWS30Z	Revision of Drainage Device in Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWS33Z	Revision of Infusion Device in Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWS34Z	Revision of Internal Fixation Device in Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWS35Z	Revision of External Fixation Device in Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWS37Z	Revision of Autologous Tissue Substitute in Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWS38Z	Revision of Spacer in Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWS3JZ	Revision of Synthetic Substitute in Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWS3KZ	Revision of Nonautologous Tissue Substitute in Right Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWS40Z	Revision of Drainage Device in Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWS43Z	Revision of Infusion Device in Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWS44Z	Revision of Internal Fixation Device in Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWS45Z	Revision of External Fixation Device in Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWS47Z	Revision of Autologous Tissue Substitute in Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWS48Z	Revision of Spacer in Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWS4JZ	Revision of Synthetic Substitute in Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWS4KZ	Revision of Nonautologous Tissue Substitute in Right Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWT00Z	Revision of Drainage Device in Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWT03Z	Revision of Infusion Device in Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWT04Z	Revision of Internal Fixation Device in Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWT05Z	Revision of External Fixation Device in Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWT07Z	Revision of Autologous Tissue Substitute in Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWT08Z	Revision of Spacer in Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWT0JZ	Revision of Synthetic Substitute in Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWT0KZ	Revision of Nonautologous Tissue Substitute in Left Carpometacarpal Joint, Open Approach	PX	ICD-10-PCS
0RWT30Z	Revision of Drainage Device in Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWT33Z	Revision of Infusion Device in Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWT34Z	Revision of Internal Fixation Device in Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWT35Z	Revision of External Fixation Device in Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWT37Z	Revision of Autologous Tissue Substitute in Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWT38Z	Revision of Spacer in Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWT3JZ	Revision of Synthetic Substitute in Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWT3KZ	Revision of Nonautologous Tissue Substitute in Left Carpometacarpal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWT40Z	Revision of Drainage Device in Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWT43Z	Revision of Infusion Device in Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWT44Z	Revision of Internal Fixation Device in Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWT45Z	Revision of External Fixation Device in Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWT47Z	Revision of Autologous Tissue Substitute in Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWT48Z	Revision of Spacer in Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWT4JZ	Revision of Synthetic Substitute in Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWT4KZ	Revision of Nonautologous Tissue Substitute in Left Carpometacarpal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWU00Z	Revision of Drainage Device in Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWU03Z	Revision of Infusion Device in Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWU04Z	Revision of Internal Fixation Device in Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWU05Z	Revision of External Fixation Device in Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWU07Z	Revision of Autologous Tissue Substitute in Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWU08Z	Revision of Spacer in Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWU0JZ	Revision of Synthetic Substitute in Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWU0KZ	Revision of Nonautologous Tissue Substitute in Right Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWU30Z	Revision of Drainage Device in Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWU33Z	Revision of Infusion Device in Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWU34Z	Revision of Internal Fixation Device in Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWU35Z	Revision of External Fixation Device in Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWU37Z	Revision of Autologous Tissue Substitute in Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWU38Z	Revision of Spacer in Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWU3JZ	Revision of Synthetic Substitute in Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWU3KZ	Revision of Nonautologous Tissue Substitute in Right Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWU40Z	Revision of Drainage Device in Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWU43Z	Revision of Infusion Device in Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWU44Z	Revision of Internal Fixation Device in Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWU45Z	Revision of External Fixation Device in Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWU47Z	Revision of Autologous Tissue Substitute in Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWU48Z	Revision of Spacer in Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWU4JZ	Revision of Synthetic Substitute in Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWU4KZ	Revision of Nonautologous Tissue Substitute in Right Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWV00Z	Revision of Drainage Device in Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWV03Z	Revision of Infusion Device in Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWV04Z	Revision of Internal Fixation Device in Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWV05Z	Revision of External Fixation Device in Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWV07Z	Revision of Autologous Tissue Substitute in Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWV08Z	Revision of Spacer in Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWV0JZ	Revision of Synthetic Substitute in Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWV0KZ	Revision of Nonautologous Tissue Substitute in Left Metacarpophalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWV30Z	Revision of Drainage Device in Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWV33Z	Revision of Infusion Device in Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWV34Z	Revision of Internal Fixation Device in Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWV35Z	Revision of External Fixation Device in Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWV37Z	Revision of Autologous Tissue Substitute in Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWV38Z	Revision of Spacer in Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWV3JZ	Revision of Synthetic Substitute in Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWV3KZ	Revision of Nonautologous Tissue Substitute in Left Metacarpophalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWV40Z	Revision of Drainage Device in Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWV43Z	Revision of Infusion Device in Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWV44Z	Revision of Internal Fixation Device in Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWV45Z	Revision of External Fixation Device in Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWV47Z	Revision of Autologous Tissue Substitute in Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWV48Z	Revision of Spacer in Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWV4JZ	Revision of Synthetic Substitute in Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWV4KZ	Revision of Nonautologous Tissue Substitute in Left Metacarpophalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWW00Z	Revision of Drainage Device in Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWW03Z	Revision of Infusion Device in Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWW04Z	Revision of Internal Fixation Device in Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWW05Z	Revision of External Fixation Device in Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWW07Z	Revision of Autologous Tissue Substitute in Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWW08Z	Revision of Spacer in Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWW0JZ	Revision of Synthetic Substitute in Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWW0KZ	Revision of Nonautologous Tissue Substitute in Right Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWW30Z	Revision of Drainage Device in Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWW33Z	Revision of Infusion Device in Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWW34Z	Revision of Internal Fixation Device in Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWW35Z	Revision of External Fixation Device in Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWW37Z	Revision of Autologous Tissue Substitute in Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWW38Z	Revision of Spacer in Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWW3JZ	Revision of Synthetic Substitute in Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWW3KZ	Revision of Nonautologous Tissue Substitute in Right Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWW40Z	Revision of Drainage Device in Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWW43Z	Revision of Infusion Device in Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWW44Z	Revision of Internal Fixation Device in Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWW45Z	Revision of External Fixation Device in Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWW47Z	Revision of Autologous Tissue Substitute in Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWW48Z	Revision of Spacer in Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWW4JZ	Revision of Synthetic Substitute in Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWW4KZ	Revision of Nonautologous Tissue Substitute in Right Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWX00Z	Revision of Drainage Device in Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWX03Z	Revision of Infusion Device in Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWX04Z	Revision of Internal Fixation Device in Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWX05Z	Revision of External Fixation Device in Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWX07Z	Revision of Autologous Tissue Substitute in Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWX08Z	Revision of Spacer in Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWX0JZ	Revision of Synthetic Substitute in Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWX0KZ	Revision of Nonautologous Tissue Substitute in Left Finger Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0RWX30Z	Revision of Drainage Device in Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWX33Z	Revision of Infusion Device in Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0RWX34Z	Revision of Internal Fixation Device in Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWX35Z	Revision of External Fixation Device in Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWX37Z	Revision of Autologous Tissue Substitute in Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWX38Z	Revision of Spacer in Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWX3JZ	Revision of Synthetic Substitute in Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWX3KZ	Revision of Nonautologous Tissue Substitute in Left Finger Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0RWX40Z	Revision of Drainage Device in Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWX43Z	Revision of Infusion Device in Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWX44Z	Revision of Internal Fixation Device in Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWX45Z	Revision of External Fixation Device in Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWX47Z	Revision of Autologous Tissue Substitute in Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWX48Z	Revision of Spacer in Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWX4JZ	Revision of Synthetic Substitute in Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0RWX4KZ	Revision of Nonautologous Tissue Substitute in Left Finger Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S500ZZ	Destruction of Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0S503ZZ	Destruction of Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0S504ZZ	Destruction of Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S520ZZ	Destruction of Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0S523ZZ	Destruction of Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0S524ZZ	Destruction of Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S530ZZ	Destruction of Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0S533ZZ	Destruction of Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0S534ZZ	Destruction of Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S540ZZ	Destruction of Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0S543ZZ	Destruction of Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0S544ZZ	Destruction of Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S550ZZ	Destruction of Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0S553ZZ	Destruction of Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0S554ZZ	Destruction of Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S560ZZ	Destruction of Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0S563ZZ	Destruction of Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0S564ZZ	Destruction of Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0S570ZZ	Destruction of Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0S573ZZ	Destruction of Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0S574ZZ	Destruction of Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S580ZZ	Destruction of Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0S583ZZ	Destruction of Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0S584ZZ	Destruction of Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S590ZZ	Destruction of Right Hip Joint, Open Approach	PX	ICD-10-PCS
0S593ZZ	Destruction of Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0S594ZZ	Destruction of Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5B0ZZ	Destruction of Left Hip Joint, Open Approach	PX	ICD-10-PCS
0S5B3ZZ	Destruction of Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5B4ZZ	Destruction of Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5C0ZZ	Destruction of Right Knee Joint, Open Approach	PX	ICD-10-PCS
0S5C3ZZ	Destruction of Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5C4ZZ	Destruction of Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5D0ZZ	Destruction of Left Knee Joint, Open Approach	PX	ICD-10-PCS
0S5D3ZZ	Destruction of Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5D4ZZ	Destruction of Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5F0ZZ	Destruction of Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0S5F3ZZ	Destruction of Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5F4ZZ	Destruction of Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5G0ZZ	Destruction of Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0S5G3ZZ	Destruction of Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5G4ZZ	Destruction of Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5H0ZZ	Destruction of Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0S5H3ZZ	Destruction of Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5H4ZZ	Destruction of Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5J0ZZ	Destruction of Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0S5J3ZZ	Destruction of Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5J4ZZ	Destruction of Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5K0ZZ	Destruction of Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0S5K3ZZ	Destruction of Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5K4ZZ	Destruction of Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5L0ZZ	Destruction of Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0S5L3ZZ	Destruction of Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5L4ZZ	Destruction of Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5M0ZZ	Destruction of Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0S5M3ZZ	Destruction of Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5M4ZZ	Destruction of Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5N0ZZ	Destruction of Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0S5N3ZZ	Destruction of Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5N4ZZ	Destruction of Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5P0ZZ	Destruction of Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0S5P3ZZ	Destruction of Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5P4ZZ	Destruction of Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S5Q0ZZ	Destruction of Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0S5Q3ZZ	Destruction of Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0S5Q4ZZ	Destruction of Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9000Z	Drainage of Lumbar Vertebral Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S900ZZ	Drainage of Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0S9040Z	Drainage of Lumbar Vertebral Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S904ZZ	Drainage of Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9200Z	Drainage of Lumbar Vertebral Disc with Drainage Device, Open Approach	PX	ICD-10-PCS
0S920ZZ	Drainage of Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0S9240Z	Drainage of Lumbar Vertebral Disc with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S924ZZ	Drainage of Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9300Z	Drainage of Lumbosacral Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S930ZZ	Drainage of Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0S9340Z	Drainage of Lumbosacral Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S934ZZ	Drainage of Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9400Z	Drainage of Lumbosacral Disc with Drainage Device, Open Approach	PX	ICD-10-PCS
0S940ZZ	Drainage of Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0S9440Z	Drainage of Lumbosacral Disc with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S944ZZ	Drainage of Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9500Z	Drainage of Sacrococcygeal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S950ZZ	Drainage of Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0S9540Z	Drainage of Sacrococcygeal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S954ZZ	Drainage of Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9600Z	Drainage of Coccygeal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S960ZZ	Drainage of Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0S9640Z	Drainage of Coccygeal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S964ZZ	Drainage of Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9700Z	Drainage of Right Sacroiliac Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S970ZZ	Drainage of Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0S9740Z	Drainage of Right Sacroiliac Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S974ZZ	Drainage of Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9800Z	Drainage of Left Sacroiliac Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S980ZZ	Drainage of Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0S9840Z	Drainage of Left Sacroiliac Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S984ZZ	Drainage of Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0S9900Z	Drainage of Right Hip Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S990ZZ	Drainage of Right Hip Joint, Open Approach	PX	ICD-10-PCS
0S9940Z	Drainage of Right Hip Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S994ZZ	Drainage of Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9B00Z	Drainage of Left Hip Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9B0ZZ	Drainage of Left Hip Joint, Open Approach	PX	ICD-10-PCS
0S9B40Z	Drainage of Left Hip Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9B4ZZ	Drainage of Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9C00Z	Drainage of Right Knee Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9C0ZZ	Drainage of Right Knee Joint, Open Approach	PX	ICD-10-PCS
0S9C40Z	Drainage of Right Knee Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9C4ZZ	Drainage of Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9D00Z	Drainage of Left Knee Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9D0ZZ	Drainage of Left Knee Joint, Open Approach	PX	ICD-10-PCS
0S9D40Z	Drainage of Left Knee Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9D4ZZ	Drainage of Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9F00Z	Drainage of Right Ankle Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9F0ZZ	Drainage of Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0S9F40Z	Drainage of Right Ankle Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9F4ZZ	Drainage of Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9G00Z	Drainage of Left Ankle Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9G0ZZ	Drainage of Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0S9G40Z	Drainage of Left Ankle Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9G4ZZ	Drainage of Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9H00Z	Drainage of Right Tarsal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9H0ZZ	Drainage of Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0S9H40Z	Drainage of Right Tarsal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9H4ZZ	Drainage of Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9J00Z	Drainage of Left Tarsal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9J0ZZ	Drainage of Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0S9J40Z	Drainage of Left Tarsal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9J4ZZ	Drainage of Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9K00Z	Drainage of Right Tarsometatarsal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9K0ZZ	Drainage of Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0S9K40Z	Drainage of Right Tarsometatarsal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9K4ZZ	Drainage of Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0S9L00Z	Drainage of Left Tarsometatarsal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9L0ZZ	Drainage of Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0S9L40Z	Drainage of Left Tarsometatarsal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9L4ZZ	Drainage of Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9M00Z	Drainage of Right Metatarsal-Phalangeal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9M0ZZ	Drainage of Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0S9M40Z	Drainage of Right Metatarsal-Phalangeal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9M4ZZ	Drainage of Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9N00Z	Drainage of Left Metatarsal-Phalangeal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9N0ZZ	Drainage of Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0S9N40Z	Drainage of Left Metatarsal-Phalangeal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9N4ZZ	Drainage of Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9P00Z	Drainage of Right Toe Phalangeal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9P0ZZ	Drainage of Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0S9P40Z	Drainage of Right Toe Phalangeal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9P4ZZ	Drainage of Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9Q00Z	Drainage of Left Toe Phalangeal Joint with Drainage Device, Open Approach	PX	ICD-10-PCS
0S9Q0ZZ	Drainage of Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0S9Q40Z	Drainage of Left Toe Phalangeal Joint with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0S9Q4ZZ	Drainage of Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SB00ZZ	Excision of Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SB03ZZ	Excision of Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SB04ZZ	Excision of Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SB20ZZ	Excision of Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SB23ZZ	Excision of Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SB24ZZ	Excision of Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SB30ZZ	Excision of Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SB33ZZ	Excision of Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SB34ZZ	Excision of Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SB40ZZ	Excision of Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SB43ZZ	Excision of Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SB44ZZ	Excision of Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SB50ZZ	Excision of Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SB53ZZ	Excision of Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SB54ZZ	Excision of Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SB60ZZ	Excision of Coccygeal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SB63ZZ	Excision of Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SB64ZZ	Excision of Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SB70ZZ	Excision of Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SB73ZZ	Excision of Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SB74ZZ	Excision of Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SB80ZZ	Excision of Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SB83ZZ	Excision of Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SB84ZZ	Excision of Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SB90ZZ	Excision of Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SB93ZZ	Excision of Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SB94ZZ	Excision of Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBB0ZZ	Excision of Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SBB3ZZ	Excision of Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBB4ZZ	Excision of Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBC0ZZ	Excision of Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SBC3ZZ	Excision of Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBC4ZZ	Excision of Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBD0ZZ	Excision of Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SBD3ZZ	Excision of Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBD4ZZ	Excision of Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBF0ZZ	Excision of Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SBF3ZZ	Excision of Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBF4ZZ	Excision of Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBG0ZZ	Excision of Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SBG3ZZ	Excision of Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBG4ZZ	Excision of Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBH0ZZ	Excision of Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SBH3ZZ	Excision of Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBH4ZZ	Excision of Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBJ0ZZ	Excision of Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SBJ3ZZ	Excision of Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBJ4ZZ	Excision of Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBK0ZZ	Excision of Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SBK3ZZ	Excision of Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBK4ZZ	Excision of Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBL0ZZ	Excision of Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SBL3ZZ	Excision of Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBL4ZZ	Excision of Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBM0ZZ	Excision of Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SBM3ZZ	Excision of Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBM4ZZ	Excision of Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBN0ZZ	Excision of Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SBN3ZZ	Excision of Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SBN4ZZ	Excision of Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBP0ZZ	Excision of Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SBP3ZZ	Excision of Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBP4ZZ	Excision of Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SBQ0ZZ	Excision of Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SBQ3ZZ	Excision of Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SBQ4ZZ	Excision of Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SC00ZZ	Extirpation of Matter from Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SC03ZZ	Extirpation of Matter from Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SC04ZZ	Extirpation of Matter from Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SC20ZZ	Extirpation of Matter from Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SC23ZZ	Extirpation of Matter from Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SC24ZZ	Extirpation of Matter from Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SC30ZZ	Extirpation of Matter from Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SC33ZZ	Extirpation of Matter from Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SC34ZZ	Extirpation of Matter from Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SC40ZZ	Extirpation of Matter from Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SC43ZZ	Extirpation of Matter from Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SC44ZZ	Extirpation of Matter from Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SC50ZZ	Extirpation of Matter from Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SC53ZZ	Extirpation of Matter from Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SC54ZZ	Extirpation of Matter from Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SC60ZZ	Extirpation of Matter from Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SC63ZZ	Extirpation of Matter from Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SC64ZZ	Extirpation of Matter from Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SC70ZZ	Extirpation of Matter from Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SC73ZZ	Extirpation of Matter from Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SC74ZZ	Extirpation of Matter from Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SC80ZZ	Extirpation of Matter from Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SC83ZZ	Extirpation of Matter from Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SC84ZZ	Extirpation of Matter from Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SC90ZZ	Extirpation of Matter from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SC93ZZ	Extirpation of Matter from Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SC94ZZ	Extirpation of Matter from Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCB0ZZ	Extirpation of Matter from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SCB3ZZ	Extirpation of Matter from Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCB4ZZ	Extirpation of Matter from Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SCC0ZZ	Extirpation of Matter from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SCC3ZZ	Extirpation of Matter from Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCC4ZZ	Extirpation of Matter from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCD0ZZ	Extirpation of Matter from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SCD3ZZ	Extirpation of Matter from Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCD4ZZ	Extirpation of Matter from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCF0ZZ	Extirpation of Matter from Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SCF3ZZ	Extirpation of Matter from Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCF4ZZ	Extirpation of Matter from Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCG0ZZ	Extirpation of Matter from Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SCG3ZZ	Extirpation of Matter from Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCG4ZZ	Extirpation of Matter from Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCH0ZZ	Extirpation of Matter from Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SCH3ZZ	Extirpation of Matter from Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCH4ZZ	Extirpation of Matter from Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCJ0ZZ	Extirpation of Matter from Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SCJ3ZZ	Extirpation of Matter from Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCJ4ZZ	Extirpation of Matter from Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCK0ZZ	Extirpation of Matter from Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SCK3ZZ	Extirpation of Matter from Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCK4ZZ	Extirpation of Matter from Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCL0ZZ	Extirpation of Matter from Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SCL3ZZ	Extirpation of Matter from Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCL4ZZ	Extirpation of Matter from Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCM0ZZ	Extirpation of Matter from Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SCM3ZZ	Extirpation of Matter from Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCM4ZZ	Extirpation of Matter from Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCN0ZZ	Extirpation of Matter from Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SCN3ZZ	Extirpation of Matter from Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCN4ZZ	Extirpation of Matter from Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCP0ZZ	Extirpation of Matter from Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SCP3ZZ	Extirpation of Matter from Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SCP4ZZ	Extirpation of Matter from Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SCQ0ZZ	Extirpation of Matter from Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SCQ3ZZ	Extirpation of Matter from Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SCQ4ZZ	Extirpation of Matter from Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG0070	Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG0071	Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG007J	Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG00A0	Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG00A1	Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG00AJ	Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG00J0	Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG00J1	Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG00JJ	Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG00K0	Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG00K1	Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG00KJ	Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG00Z0	Fusion of Lumbar Vertebral Joint, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG00Z1	Fusion of Lumbar Vertebral Joint, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG00ZJ	Fusion of Lumbar Vertebral Joint, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG0370	Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG0371	Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG037J	Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03A0	Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03A1	Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03AJ	Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SG03J0	Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03J1	Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03JJ	Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03K0	Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03K1	Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03KJ	Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03Z0	Fusion of Lumbar Vertebral Joint, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03Z1	Fusion of Lumbar Vertebral Joint, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG03ZJ	Fusion of Lumbar Vertebral Joint, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG0470	Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG0471	Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG047J	Fusion of Lumbar Vertebral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04A0	Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04A1	Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04AJ	Fusion of Lumbar Vertebral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04J0	Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04J1	Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04JJ	Fusion of Lumbar Vertebral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04K0	Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04K1	Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04KJ	Fusion of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04Z0	Fusion of Lumbar Vertebral Joint, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SG04Z1	Fusion of Lumbar Vertebral Joint, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG04ZJ	Fusion of Lumbar Vertebral Joint, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG1070	Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG1071	Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG107J	Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG10A0	Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG10A1	Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG10AJ	Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG10J0	Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG10J1	Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG10JJ	Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG10K0	Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG10K1	Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG10KJ	Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG10Z0	Fusion of 2 or more Lumbar Vertebral Joints, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG10Z1	Fusion of 2 or more Lumbar Vertebral Joints, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG10ZJ	Fusion of 2 or more Lumbar Vertebral Joints, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG1370	Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG1371	Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG137J	Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13A0	Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13A1	Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SG13AJ	Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13J0	Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13J1	Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13JJ	Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13K0	Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13K1	Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13KJ	Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13Z0	Fusion of 2 or more Lumbar Vertebral Joints, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13Z1	Fusion of 2 or more Lumbar Vertebral Joints, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG13ZJ	Fusion of 2 or more Lumbar Vertebral Joints, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG1470	Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG1471	Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG147J	Fusion of 2 or more Lumbar Vertebral Joints with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14A0	Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14A1	Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14AJ	Fusion of 2 or more Lumbar Vertebral Joints with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14J0	Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14J1	Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14JJ	Fusion of 2 or more Lumbar Vertebral Joints with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14K0	Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14K1	Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SG14KJ	Fusion of 2 or more Lumbar Vertebral Joints with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14Z0	Fusion of 2 or more Lumbar Vertebral Joints, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14Z1	Fusion of 2 or more Lumbar Vertebral Joints, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG14ZJ	Fusion of 2 or more Lumbar Vertebral Joints, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG3070	Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG3071	Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG307J	Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG30A0	Fusion of Lumbosacral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG30A1	Fusion of Lumbosacral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG30AJ	Fusion of Lumbosacral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG30J0	Fusion of Lumbosacral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG30J1	Fusion of Lumbosacral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG30JJ	Fusion of Lumbosacral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG30K0	Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG30K1	Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG30KJ	Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG30Z0	Fusion of Lumbosacral Joint, Anterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG30Z1	Fusion of Lumbosacral Joint, Posterior Approach, Posterior Column, Open Approach	PX	ICD-10-PCS
0SG30ZJ	Fusion of Lumbosacral Joint, Posterior Approach, Anterior Column, Open Approach	PX	ICD-10-PCS
0SG3370	Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG3371	Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG337J	Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SG33A0	Fusion of Lumbosacral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33A1	Fusion of Lumbosacral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33AJ	Fusion of Lumbosacral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33J0	Fusion of Lumbosacral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33J1	Fusion of Lumbosacral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33JJ	Fusion of Lumbosacral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33K0	Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33K1	Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33KJ	Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33Z0	Fusion of Lumbosacral Joint, Anterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33Z1	Fusion of Lumbosacral Joint, Posterior Approach, Posterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG33ZJ	Fusion of Lumbosacral Joint, Posterior Approach, Anterior Column, Percutaneous Approach	PX	ICD-10-PCS
0SG3470	Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG3471	Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG347J	Fusion of Lumbosacral Joint with Autologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34A0	Fusion of Lumbosacral Joint with Interbody Fusion Device, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34A1	Fusion of Lumbosacral Joint with Interbody Fusion Device, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34AJ	Fusion of Lumbosacral Joint with Interbody Fusion Device, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34J0	Fusion of Lumbosacral Joint with Synthetic Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34J1	Fusion of Lumbosacral Joint with Synthetic Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34JJ	Fusion of Lumbosacral Joint with Synthetic Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34K0	Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SG34K1	Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34KJ	Fusion of Lumbosacral Joint with Nonautologous Tissue Substitute, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34Z0	Fusion of Lumbosacral Joint, Anterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34Z1	Fusion of Lumbosacral Joint, Posterior Approach, Posterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG34ZJ	Fusion of Lumbosacral Joint, Posterior Approach, Anterior Column, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG504Z	Fusion of Sacrococcygeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SG507Z	Fusion of Sacrococcygeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SG50JZ	Fusion of Sacrococcygeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SG50KZ	Fusion of Sacrococcygeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SG50ZZ	Fusion of Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SG534Z	Fusion of Sacrococcygeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SG537Z	Fusion of Sacrococcygeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG53JZ	Fusion of Sacrococcygeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG53KZ	Fusion of Sacrococcygeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG53ZZ	Fusion of Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SG544Z	Fusion of Sacrococcygeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG547Z	Fusion of Sacrococcygeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG54JZ	Fusion of Sacrococcygeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG54KZ	Fusion of Sacrococcygeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG54ZZ	Fusion of Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG604Z	Fusion of Coccygeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SG607Z	Fusion of Coccygeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SG60JZ	Fusion of Coccygeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SG60KZ	Fusion of Coccygeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SG60ZZ	Fusion of Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SG634Z	Fusion of Coccygeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SG637Z	Fusion of Coccygeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG63JZ	Fusion of Coccygeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SG63KZ	Fusion of Coccygeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG63ZZ	Fusion of Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SG644Z	Fusion of Coccygeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG647Z	Fusion of Coccygeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG64JZ	Fusion of Coccygeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG64KZ	Fusion of Coccygeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG64ZZ	Fusion of Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG704Z	Fusion of Right Sacroiliac Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SG707Z	Fusion of Right Sacroiliac Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SG70JZ	Fusion of Right Sacroiliac Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SG70KZ	Fusion of Right Sacroiliac Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SG70ZZ	Fusion of Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SG734Z	Fusion of Right Sacroiliac Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SG737Z	Fusion of Right Sacroiliac Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG73JZ	Fusion of Right Sacroiliac Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG73KZ	Fusion of Right Sacroiliac Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG73ZZ	Fusion of Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SG744Z	Fusion of Right Sacroiliac Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG747Z	Fusion of Right Sacroiliac Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG74JZ	Fusion of Right Sacroiliac Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG74KZ	Fusion of Right Sacroiliac Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG74ZZ	Fusion of Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG804Z	Fusion of Left Sacroiliac Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SG807Z	Fusion of Left Sacroiliac Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SG80JZ	Fusion of Left Sacroiliac Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SG80KZ	Fusion of Left Sacroiliac Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SG80ZZ	Fusion of Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SG834Z	Fusion of Left Sacroiliac Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SG837Z	Fusion of Left Sacroiliac Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG83JZ	Fusion of Left Sacroiliac Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG83KZ	Fusion of Left Sacroiliac Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG83ZZ	Fusion of Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SG844Z	Fusion of Left Sacroiliac Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG847Z	Fusion of Left Sacroiliac Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG84JZ	Fusion of Left Sacroiliac Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG84KZ	Fusion of Left Sacroiliac Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG84ZZ	Fusion of Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG903Z	Fusion of Right Hip Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SG904Z	Fusion of Right Hip Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SG905Z	Fusion of Right Hip Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SG907Z	Fusion of Right Hip Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SG90JZ	Fusion of Right Hip Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SG90KZ	Fusion of Right Hip Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SG90ZZ	Fusion of Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SG933Z	Fusion of Right Hip Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SG934Z	Fusion of Right Hip Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SG935Z	Fusion of Right Hip Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SG937Z	Fusion of Right Hip Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG93JZ	Fusion of Right Hip Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG93KZ	Fusion of Right Hip Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SG93ZZ	Fusion of Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SG943Z	Fusion of Right Hip Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG944Z	Fusion of Right Hip Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG945Z	Fusion of Right Hip Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG947Z	Fusion of Right Hip Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG94JZ	Fusion of Right Hip Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SG94KZ	Fusion of Right Hip Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SG94ZZ	Fusion of Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGB03Z	Fusion of Left Hip Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGB04Z	Fusion of Left Hip Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGB05Z	Fusion of Left Hip Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGB07Z	Fusion of Left Hip Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGB0JZ	Fusion of Left Hip Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGB0KZ	Fusion of Left Hip Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGB0ZZ	Fusion of Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SGB33Z	Fusion of Left Hip Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGB34Z	Fusion of Left Hip Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGB35Z	Fusion of Left Hip Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGB37Z	Fusion of Left Hip Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGB3JZ	Fusion of Left Hip Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGB3KZ	Fusion of Left Hip Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGB3ZZ	Fusion of Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGB43Z	Fusion of Left Hip Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGB44Z	Fusion of Left Hip Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGB45Z	Fusion of Left Hip Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGB47Z	Fusion of Left Hip Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGB4JZ	Fusion of Left Hip Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGB4KZ	Fusion of Left Hip Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGB4ZZ	Fusion of Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGC03Z	Fusion of Right Knee Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGC04Z	Fusion of Right Knee Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGC05Z	Fusion of Right Knee Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGC07Z	Fusion of Right Knee Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGC0JZ	Fusion of Right Knee Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGC0KZ	Fusion of Right Knee Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGC0ZZ	Fusion of Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SGC33Z	Fusion of Right Knee Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SGC34Z	Fusion of Right Knee Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGC35Z	Fusion of Right Knee Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGC37Z	Fusion of Right Knee Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGC3JZ	Fusion of Right Knee Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGC3KZ	Fusion of Right Knee Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGC3ZZ	Fusion of Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGC43Z	Fusion of Right Knee Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGC44Z	Fusion of Right Knee Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGC45Z	Fusion of Right Knee Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGC47Z	Fusion of Right Knee Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGC4JZ	Fusion of Right Knee Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGC4KZ	Fusion of Right Knee Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGC4ZZ	Fusion of Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGD03Z	Fusion of Left Knee Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGD04Z	Fusion of Left Knee Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGD05Z	Fusion of Left Knee Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGD07Z	Fusion of Left Knee Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGD0JZ	Fusion of Left Knee Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGD0KZ	Fusion of Left Knee Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGD0ZZ	Fusion of Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SGD33Z	Fusion of Left Knee Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGD34Z	Fusion of Left Knee Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGD35Z	Fusion of Left Knee Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGD37Z	Fusion of Left Knee Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGD3JZ	Fusion of Left Knee Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGD3KZ	Fusion of Left Knee Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGD3ZZ	Fusion of Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGD43Z	Fusion of Left Knee Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGD44Z	Fusion of Left Knee Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SGD45Z	Fusion of Left Knee Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGD47Z	Fusion of Left Knee Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGD4JZ	Fusion of Left Knee Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGD4KZ	Fusion of Left Knee Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGD4ZZ	Fusion of Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGF03Z	Fusion of Right Ankle Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGF04Z	Fusion of Right Ankle Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGF05Z	Fusion of Right Ankle Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGF07Z	Fusion of Right Ankle Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGF0JZ	Fusion of Right Ankle Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGF0KZ	Fusion of Right Ankle Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGF0ZZ	Fusion of Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SGF33Z	Fusion of Right Ankle Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGF34Z	Fusion of Right Ankle Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGF35Z	Fusion of Right Ankle Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGF37Z	Fusion of Right Ankle Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGF3JZ	Fusion of Right Ankle Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGF3KZ	Fusion of Right Ankle Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGF3ZZ	Fusion of Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGF43Z	Fusion of Right Ankle Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGF44Z	Fusion of Right Ankle Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGF45Z	Fusion of Right Ankle Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGF47Z	Fusion of Right Ankle Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGF4JZ	Fusion of Right Ankle Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGF4KZ	Fusion of Right Ankle Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGF4ZZ	Fusion of Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGG03Z	Fusion of Left Ankle Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SGG04Z	Fusion of Left Ankle Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGG05Z	Fusion of Left Ankle Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGG07Z	Fusion of Left Ankle Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGG0JZ	Fusion of Left Ankle Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGG0KZ	Fusion of Left Ankle Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGG0ZZ	Fusion of Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SGG33Z	Fusion of Left Ankle Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGG34Z	Fusion of Left Ankle Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGG35Z	Fusion of Left Ankle Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGG37Z	Fusion of Left Ankle Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGG3JZ	Fusion of Left Ankle Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGG3KZ	Fusion of Left Ankle Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGG3ZZ	Fusion of Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGG43Z	Fusion of Left Ankle Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGG44Z	Fusion of Left Ankle Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGG45Z	Fusion of Left Ankle Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGG47Z	Fusion of Left Ankle Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGG4JZ	Fusion of Left Ankle Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGG4KZ	Fusion of Left Ankle Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGG4ZZ	Fusion of Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGH03Z	Fusion of Right Tarsal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGH04Z	Fusion of Right Tarsal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGH05Z	Fusion of Right Tarsal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGH07Z	Fusion of Right Tarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGH0JZ	Fusion of Right Tarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGH0KZ	Fusion of Right Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGH0ZZ	Fusion of Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SGH33Z	Fusion of Right Tarsal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGH34Z	Fusion of Right Tarsal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGH35Z	Fusion of Right Tarsal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SGH37Z	Fusion of Right Tarsal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGH3JZ	Fusion of Right Tarsal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGH3KZ	Fusion of Right Tarsal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGH3ZZ	Fusion of Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGH43Z	Fusion of Right Tarsal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGH44Z	Fusion of Right Tarsal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGH45Z	Fusion of Right Tarsal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGH47Z	Fusion of Right Tarsal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGH4JZ	Fusion of Right Tarsal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGH4KZ	Fusion of Right Tarsal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGH4ZZ	Fusion of Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGJ03Z	Fusion of Left Tarsal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGJ04Z	Fusion of Left Tarsal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGJ05Z	Fusion of Left Tarsal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGJ07Z	Fusion of Left Tarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGJ0JZ	Fusion of Left Tarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGJ0KZ	Fusion of Left Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGJ0ZZ	Fusion of Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SGJ33Z	Fusion of Left Tarsal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGJ34Z	Fusion of Left Tarsal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGJ35Z	Fusion of Left Tarsal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGJ37Z	Fusion of Left Tarsal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGJ3JZ	Fusion of Left Tarsal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGJ3KZ	Fusion of Left Tarsal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGJ3ZZ	Fusion of Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGJ43Z	Fusion of Left Tarsal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGJ44Z	Fusion of Left Tarsal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGJ45Z	Fusion of Left Tarsal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SGJ47Z	Fusion of Left Tarsal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGJ4JZ	Fusion of Left Tarsal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGJ4KZ	Fusion of Left Tarsal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGJ4ZZ	Fusion of Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGK03Z	Fusion of Right Tarsometatarsal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGK04Z	Fusion of Right Tarsometatarsal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGK05Z	Fusion of Right Tarsometatarsal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGK07Z	Fusion of Right Tarsometatarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGK0JZ	Fusion of Right Tarsometatarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGK0KZ	Fusion of Right Tarsometatarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGK0ZZ	Fusion of Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SGK33Z	Fusion of Right Tarsometatarsal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGK34Z	Fusion of Right Tarsometatarsal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGK35Z	Fusion of Right Tarsometatarsal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGK37Z	Fusion of Right Tarsometatarsal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGK3JZ	Fusion of Right Tarsometatarsal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGK3KZ	Fusion of Right Tarsometatarsal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGK3ZZ	Fusion of Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGK43Z	Fusion of Right Tarsometatarsal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGK44Z	Fusion of Right Tarsometatarsal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGK45Z	Fusion of Right Tarsometatarsal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGK47Z	Fusion of Right Tarsometatarsal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGK4JZ	Fusion of Right Tarsometatarsal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGK4KZ	Fusion of Right Tarsometatarsal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGK4ZZ	Fusion of Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SGL03Z	Fusion of Left Tarsometatarsal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGL04Z	Fusion of Left Tarsometatarsal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGL05Z	Fusion of Left Tarsometatarsal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGL07Z	Fusion of Left Tarsometatarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGL0JZ	Fusion of Left Tarsometatarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGL0KZ	Fusion of Left Tarsometatarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGL0ZZ	Fusion of Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SGL33Z	Fusion of Left Tarsometatarsal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGL34Z	Fusion of Left Tarsometatarsal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGL35Z	Fusion of Left Tarsometatarsal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGL37Z	Fusion of Left Tarsometatarsal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGL3JZ	Fusion of Left Tarsometatarsal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGL3KZ	Fusion of Left Tarsometatarsal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGL3ZZ	Fusion of Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGL43Z	Fusion of Left Tarsometatarsal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGL44Z	Fusion of Left Tarsometatarsal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGL45Z	Fusion of Left Tarsometatarsal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGL47Z	Fusion of Left Tarsometatarsal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGL4JZ	Fusion of Left Tarsometatarsal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGL4KZ	Fusion of Left Tarsometatarsal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGL4ZZ	Fusion of Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGM03Z	Fusion of Right Metatarsal-Phalangeal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGM04Z	Fusion of Right Metatarsal-Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGM05Z	Fusion of Right Metatarsal-Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SGM07Z	Fusion of Right Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGM0JZ	Fusion of Right Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGM0KZ	Fusion of Right Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGM0ZZ	Fusion of Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SGM33Z	Fusion of Right Metatarsal-Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGM34Z	Fusion of Right Metatarsal-Phalangeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGM35Z	Fusion of Right Metatarsal-Phalangeal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGM37Z	Fusion of Right Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGM3JZ	Fusion of Right Metatarsal-Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGM3KZ	Fusion of Right Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGM3ZZ	Fusion of Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGM43Z	Fusion of Right Metatarsal-Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGM44Z	Fusion of Right Metatarsal-Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGM45Z	Fusion of Right Metatarsal-Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGM47Z	Fusion of Right Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGM4JZ	Fusion of Right Metatarsal-Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGM4KZ	Fusion of Right Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGM4ZZ	Fusion of Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGN03Z	Fusion of Left Metatarsal-Phalangeal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGN04Z	Fusion of Left Metatarsal-Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGN05Z	Fusion of Left Metatarsal-Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGN07Z	Fusion of Left Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGN0JZ	Fusion of Left Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SGN0KZ	Fusion of Left Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGN0ZZ	Fusion of Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SGN33Z	Fusion of Left Metatarsal-Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGN34Z	Fusion of Left Metatarsal-Phalangeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGN35Z	Fusion of Left Metatarsal-Phalangeal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGN37Z	Fusion of Left Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGN3JZ	Fusion of Left Metatarsal-Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGN3KZ	Fusion of Left Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGN3ZZ	Fusion of Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGN43Z	Fusion of Left Metatarsal-Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGN44Z	Fusion of Left Metatarsal-Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGN45Z	Fusion of Left Metatarsal-Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGN47Z	Fusion of Left Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGN4JZ	Fusion of Left Metatarsal-Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGN4KZ	Fusion of Left Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGN4ZZ	Fusion of Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGP03Z	Fusion of Right Toe Phalangeal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGP04Z	Fusion of Right Toe Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGP05Z	Fusion of Right Toe Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGP07Z	Fusion of Right Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGP0JZ	Fusion of Right Toe Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGP0KZ	Fusion of Right Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGP0ZZ	Fusion of Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SGP33Z	Fusion of Right Toe Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGP34Z	Fusion of Right Toe Phalangeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SGP35Z	Fusion of Right Toe Phalangeal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGP37Z	Fusion of Right Toe Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGP3JZ	Fusion of Right Toe Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGP3KZ	Fusion of Right Toe Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGP3ZZ	Fusion of Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGP43Z	Fusion of Right Toe Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGP44Z	Fusion of Right Toe Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGP45Z	Fusion of Right Toe Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGP47Z	Fusion of Right Toe Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGP4JZ	Fusion of Right Toe Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGP4KZ	Fusion of Right Toe Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGP4ZZ	Fusion of Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGQ03Z	Fusion of Left Toe Phalangeal Joint with Sustained Compression Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGQ04Z	Fusion of Left Toe Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SGQ05Z	Fusion of Left Toe Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SGQ07Z	Fusion of Left Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGQ0JZ	Fusion of Left Toe Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SGQ0KZ	Fusion of Left Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SGQ0ZZ	Fusion of Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SGQ33Z	Fusion of Left Toe Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGQ34Z	Fusion of Left Toe Phalangeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGQ35Z	Fusion of Left Toe Phalangeal Joint with External Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SGQ37Z	Fusion of Left Toe Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGQ3JZ	Fusion of Left Toe Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SGQ3KZ	Fusion of Left Toe Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SGQ3ZZ	Fusion of Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SGQ43Z	Fusion of Left Toe Phalangeal Joint with Sustained Compression Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGQ44Z	Fusion of Left Toe Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGQ45Z	Fusion of Left Toe Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGQ47Z	Fusion of Left Toe Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGQ4JZ	Fusion of Left Toe Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGQ4KZ	Fusion of Left Toe Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SGQ4ZZ	Fusion of Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH003Z	Insertion of Infusion Device into Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SH004Z	Insertion of Internal Fixation Device into Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SH008Z	Insertion of Spacer into Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SH00BZ	Insertion of Interspinous Process Spinal Stabilization Device into Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SH00CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SH00DZ	Insertion of Facet Replacement Spinal Stabilization Device into Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SH034Z	Insertion of Internal Fixation Device into Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH03BZ	Insertion of Interspinous Process Spinal Stabilization Device into Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH03CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH03DZ	Insertion of Facet Replacement Spinal Stabilization Device into Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH043Z	Insertion of Infusion Device into Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH044Z	Insertion of Internal Fixation Device into Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH048Z	Insertion of Spacer into Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH04BZ	Insertion of Interspinous Process Spinal Stabilization Device into Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH04CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SH04DZ	Insertion of Facet Replacement Spinal Stabilization Device into Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH203Z	Insertion of Infusion Device into Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SH208Z	Insertion of Spacer into Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SH243Z	Insertion of Infusion Device into Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH248Z	Insertion of Spacer into Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH303Z	Insertion of Infusion Device into Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SH304Z	Insertion of Internal Fixation Device into Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SH308Z	Insertion of Spacer into Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SH30BZ	Insertion of Interspinous Process Spinal Stabilization Device into Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SH30CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SH30DZ	Insertion of Facet Replacement Spinal Stabilization Device into Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SH334Z	Insertion of Internal Fixation Device into Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH33BZ	Insertion of Interspinous Process Spinal Stabilization Device into Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH33CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH33DZ	Insertion of Facet Replacement Spinal Stabilization Device into Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH343Z	Insertion of Infusion Device into Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH344Z	Insertion of Internal Fixation Device into Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH348Z	Insertion of Spacer into Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH34BZ	Insertion of Interspinous Process Spinal Stabilization Device into Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH34CZ	Insertion of Pedicle-Based Spinal Stabilization Device into Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH34DZ	Insertion of Facet Replacement Spinal Stabilization Device into Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH403Z	Insertion of Infusion Device into Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SH408Z	Insertion of Spacer into Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SH443Z	Insertion of Infusion Device into Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH448Z	Insertion of Spacer into Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH503Z	Insertion of Infusion Device into Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SH504Z	Insertion of Internal Fixation Device into Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SH508Z	Insertion of Spacer into Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SH534Z	Insertion of Internal Fixation Device into Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH543Z	Insertion of Infusion Device into Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH544Z	Insertion of Internal Fixation Device into Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH548Z	Insertion of Spacer into Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH603Z	Insertion of Infusion Device into Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SH604Z	Insertion of Internal Fixation Device into Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SH608Z	Insertion of Spacer into Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SH634Z	Insertion of Internal Fixation Device into Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH643Z	Insertion of Infusion Device into Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH644Z	Insertion of Internal Fixation Device into Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH648Z	Insertion of Spacer into Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH703Z	Insertion of Infusion Device into Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SH704Z	Insertion of Internal Fixation Device into Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SH708Z	Insertion of Spacer into Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SH734Z	Insertion of Internal Fixation Device into Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH743Z	Insertion of Infusion Device into Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH744Z	Insertion of Internal Fixation Device into Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH748Z	Insertion of Spacer into Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH803Z	Insertion of Infusion Device into Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SH804Z	Insertion of Internal Fixation Device into Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SH808Z	Insertion of Spacer into Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SH834Z	Insertion of Internal Fixation Device into Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH843Z	Insertion of Infusion Device into Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH844Z	Insertion of Internal Fixation Device into Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH848Z	Insertion of Spacer into Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH903Z	Insertion of Infusion Device into Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SH904Z	Insertion of Internal Fixation Device into Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SH905Z	Insertion of External Fixation Device into Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SH908Z	Insertion of Spacer into Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SH934Z	Insertion of Internal Fixation Device into Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SH935Z	Insertion of External Fixation Device into Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SH943Z	Insertion of Infusion Device into Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH944Z	Insertion of Internal Fixation Device into Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH945Z	Insertion of External Fixation Device into Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SH948Z	Insertion of Spacer into Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHB03Z	Insertion of Infusion Device into Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SHB04Z	Insertion of Internal Fixation Device into Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SHB05Z	Insertion of External Fixation Device into Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SHB08Z	Insertion of Spacer into Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SHB34Z	Insertion of Internal Fixation Device into Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHB35Z	Insertion of External Fixation Device into Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHB43Z	Insertion of Infusion Device into Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHB44Z	Insertion of Internal Fixation Device into Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHB45Z	Insertion of External Fixation Device into Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHB48Z	Insertion of Spacer into Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHC03Z	Insertion of Infusion Device into Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SHC04Z	Insertion of Internal Fixation Device into Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SHC05Z	Insertion of External Fixation Device into Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SHC08Z	Insertion of Spacer into Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SHC34Z	Insertion of Internal Fixation Device into Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHC35Z	Insertion of External Fixation Device into Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHC43Z	Insertion of Infusion Device into Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHC44Z	Insertion of Internal Fixation Device into Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHC45Z	Insertion of External Fixation Device into Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHC48Z	Insertion of Spacer into Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHD03Z	Insertion of Infusion Device into Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SHD04Z	Insertion of Internal Fixation Device into Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SHD05Z	Insertion of External Fixation Device into Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SHD08Z	Insertion of Spacer into Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SHD34Z	Insertion of Internal Fixation Device into Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHD35Z	Insertion of External Fixation Device into Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SHD43Z	Insertion of Infusion Device into Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHD44Z	Insertion of Internal Fixation Device into Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHD45Z	Insertion of External Fixation Device into Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHD48Z	Insertion of Spacer into Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHF03Z	Insertion of Infusion Device into Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SHF04Z	Insertion of Internal Fixation Device into Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SHF05Z	Insertion of External Fixation Device into Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SHF08Z	Insertion of Spacer into Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SHF34Z	Insertion of Internal Fixation Device into Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHF35Z	Insertion of External Fixation Device into Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHF43Z	Insertion of Infusion Device into Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHF44Z	Insertion of Internal Fixation Device into Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHF45Z	Insertion of External Fixation Device into Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHF48Z	Insertion of Spacer into Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHG03Z	Insertion of Infusion Device into Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SHG04Z	Insertion of Internal Fixation Device into Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SHG05Z	Insertion of External Fixation Device into Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SHG08Z	Insertion of Spacer into Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SHG34Z	Insertion of Internal Fixation Device into Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHG35Z	Insertion of External Fixation Device into Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHG43Z	Insertion of Infusion Device into Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHG44Z	Insertion of Internal Fixation Device into Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHG45Z	Insertion of External Fixation Device into Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHG48Z	Insertion of Spacer into Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHH03Z	Insertion of Infusion Device into Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SHH04Z	Insertion of Internal Fixation Device into Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SHH05Z	Insertion of External Fixation Device into Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SHH08Z	Insertion of Spacer into Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SHH34Z	Insertion of Internal Fixation Device into Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHH35Z	Insertion of External Fixation Device into Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SHH43Z	Insertion of Infusion Device into Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHH44Z	Insertion of Internal Fixation Device into Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHH45Z	Insertion of External Fixation Device into Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHH48Z	Insertion of Spacer into Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHJ03Z	Insertion of Infusion Device into Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SHJ04Z	Insertion of Internal Fixation Device into Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SHJ05Z	Insertion of External Fixation Device into Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SHJ08Z	Insertion of Spacer into Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SHJ34Z	Insertion of Internal Fixation Device into Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHJ35Z	Insertion of External Fixation Device into Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHJ43Z	Insertion of Infusion Device into Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHJ44Z	Insertion of Internal Fixation Device into Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHJ45Z	Insertion of External Fixation Device into Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHJ48Z	Insertion of Spacer into Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHK03Z	Insertion of Infusion Device into Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SHK04Z	Insertion of Internal Fixation Device into Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SHK05Z	Insertion of External Fixation Device into Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SHK08Z	Insertion of Spacer into Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SHK34Z	Insertion of Internal Fixation Device into Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHK35Z	Insertion of External Fixation Device into Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHK43Z	Insertion of Infusion Device into Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHK44Z	Insertion of Internal Fixation Device into Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHK45Z	Insertion of External Fixation Device into Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHK48Z	Insertion of Spacer into Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHL03Z	Insertion of Infusion Device into Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SHL04Z	Insertion of Internal Fixation Device into Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SHL05Z	Insertion of External Fixation Device into Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SHL08Z	Insertion of Spacer into Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SHL34Z	Insertion of Internal Fixation Device into Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHL35Z	Insertion of External Fixation Device into Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHL43Z	Insertion of Infusion Device into Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHL44Z	Insertion of Internal Fixation Device into Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHL45Z	Insertion of External Fixation Device into Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHL48Z	Insertion of Spacer into Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHM03Z	Insertion of Infusion Device into Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHM04Z	Insertion of Internal Fixation Device into Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHM05Z	Insertion of External Fixation Device into Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHM08Z	Insertion of Spacer into Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHM34Z	Insertion of Internal Fixation Device into Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHM35Z	Insertion of External Fixation Device into Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHM43Z	Insertion of Infusion Device into Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHM44Z	Insertion of Internal Fixation Device into Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHM45Z	Insertion of External Fixation Device into Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHM48Z	Insertion of Spacer into Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHN03Z	Insertion of Infusion Device into Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHN04Z	Insertion of Internal Fixation Device into Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHN05Z	Insertion of External Fixation Device into Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHN08Z	Insertion of Spacer into Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHN34Z	Insertion of Internal Fixation Device into Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHN35Z	Insertion of External Fixation Device into Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHN43Z	Insertion of Infusion Device into Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SHN44Z	Insertion of Internal Fixation Device into Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHN45Z	Insertion of External Fixation Device into Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHN48Z	Insertion of Spacer into Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHP03Z	Insertion of Infusion Device into Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHP04Z	Insertion of Internal Fixation Device into Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHP05Z	Insertion of External Fixation Device into Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHP08Z	Insertion of Spacer into Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHP34Z	Insertion of Internal Fixation Device into Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHP35Z	Insertion of External Fixation Device into Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHP43Z	Insertion of Infusion Device into Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHP44Z	Insertion of Internal Fixation Device into Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHP45Z	Insertion of External Fixation Device into Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHP48Z	Insertion of Spacer into Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHQ03Z	Insertion of Infusion Device into Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHQ04Z	Insertion of Internal Fixation Device into Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHQ05Z	Insertion of External Fixation Device into Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHQ08Z	Insertion of Spacer into Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SHQ34Z	Insertion of Internal Fixation Device into Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHQ35Z	Insertion of External Fixation Device into Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SHQ43Z	Insertion of Infusion Device into Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHQ44Z	Insertion of Internal Fixation Device into Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHQ45Z	Insertion of External Fixation Device into Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SHQ48Z	Insertion of Spacer into Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SN00ZZ	Release Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SN03ZZ	Release Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SN04ZZ	Release Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SN20ZZ	Release Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SN23ZZ	Release Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SN24ZZ	Release Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SN30ZZ	Release Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SN33ZZ	Release Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SN34ZZ	Release Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SN40ZZ	Release Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SN43ZZ	Release Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SN44ZZ	Release Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SN50ZZ	Release Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SN53ZZ	Release Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SN54ZZ	Release Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SN60ZZ	Release Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SN63ZZ	Release Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SN64ZZ	Release Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SN70ZZ	Release Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SN73ZZ	Release Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SN74ZZ	Release Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SN80ZZ	Release Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SN83ZZ	Release Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SN84ZZ	Release Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SN90ZZ	Release Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SN93ZZ	Release Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SN94ZZ	Release Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNB0ZZ	Release Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SNB3ZZ	Release Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNB4ZZ	Release Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNC0ZZ	Release Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SNC3ZZ	Release Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNC4ZZ	Release Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SND0ZZ	Release Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SND3ZZ	Release Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SND4ZZ	Release Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNF0ZZ	Release Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SNF3ZZ	Release Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNF4ZZ	Release Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNG0ZZ	Release Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SNG3ZZ	Release Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNG4ZZ	Release Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNH0ZZ	Release Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SNH3ZZ	Release Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNH4ZZ	Release Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNJ0ZZ	Release Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SNJ3ZZ	Release Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNJ4ZZ	Release Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SNK0ZZ	Release Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SNK3ZZ	Release Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNK4ZZ	Release Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNL0ZZ	Release Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SNL3ZZ	Release Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNL4ZZ	Release Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNM0ZZ	Release Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SNM3ZZ	Release Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNM4ZZ	Release Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNN0ZZ	Release Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SNN3ZZ	Release Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNN4ZZ	Release Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNP0ZZ	Release Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SNP3ZZ	Release Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNP4ZZ	Release Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SNQ0ZZ	Release Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SNQ3ZZ	Release Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SNQ4ZZ	Release Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP000Z	Removal of Drainage Device from Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SP003Z	Removal of Infusion Device from Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SP004Z	Removal of Internal Fixation Device from Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SP007Z	Removal of Autologous Tissue Substitute from Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SP008Z	Removal of Spacer from Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SP00AZ	Removal of Interbody Fusion Device from Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SP00JZ	Removal of Synthetic Substitute from Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SP00KZ	Removal of Nonautologous Tissue Substitute from Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SP034Z	Removal of Internal Fixation Device from Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP037Z	Removal of Autologous Tissue Substitute from Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP03AZ	Removal of Interbody Fusion Device from Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP03JZ	Removal of Synthetic Substitute from Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP03KZ	Removal of Nonautologous Tissue Substitute from Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP040Z	Removal of Drainage Device from Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP043Z	Removal of Infusion Device from Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SP044Z	Removal of Internal Fixation Device from Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP047Z	Removal of Autologous Tissue Substitute from Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP048Z	Removal of Spacer from Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP04AZ	Removal of Interbody Fusion Device from Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP04JZ	Removal of Synthetic Substitute from Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP04KZ	Removal of Nonautologous Tissue Substitute from Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP200Z	Removal of Drainage Device from Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SP203Z	Removal of Infusion Device from Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SP207Z	Removal of Autologous Tissue Substitute from Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SP20JZ	Removal of Synthetic Substitute from Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SP20KZ	Removal of Nonautologous Tissue Substitute from Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SP237Z	Removal of Autologous Tissue Substitute from Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SP23JZ	Removal of Synthetic Substitute from Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SP23KZ	Removal of Nonautologous Tissue Substitute from Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SP240Z	Removal of Drainage Device from Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP243Z	Removal of Infusion Device from Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP247Z	Removal of Autologous Tissue Substitute from Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP24JZ	Removal of Synthetic Substitute from Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP24KZ	Removal of Nonautologous Tissue Substitute from Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP300Z	Removal of Drainage Device from Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SP303Z	Removal of Infusion Device from Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SP304Z	Removal of Internal Fixation Device from Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SP307Z	Removal of Autologous Tissue Substitute from Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SP308Z	Removal of Spacer from Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SP30AZ	Removal of Interbody Fusion Device from Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SP30JZ	Removal of Synthetic Substitute from Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SP30KZ	Removal of Nonautologous Tissue Substitute from Lumbosacral Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SP334Z	Removal of Internal Fixation Device from Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP337Z	Removal of Autologous Tissue Substitute from Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP33AZ	Removal of Interbody Fusion Device from Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP33JZ	Removal of Synthetic Substitute from Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP33KZ	Removal of Nonautologous Tissue Substitute from Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP340Z	Removal of Drainage Device from Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP343Z	Removal of Infusion Device from Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP344Z	Removal of Internal Fixation Device from Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP347Z	Removal of Autologous Tissue Substitute from Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP348Z	Removal of Spacer from Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP34AZ	Removal of Interbody Fusion Device from Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP34JZ	Removal of Synthetic Substitute from Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP34KZ	Removal of Nonautologous Tissue Substitute from Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP400Z	Removal of Drainage Device from Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SP403Z	Removal of Infusion Device from Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SP407Z	Removal of Autologous Tissue Substitute from Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SP40JZ	Removal of Synthetic Substitute from Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SP40KZ	Removal of Nonautologous Tissue Substitute from Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SP437Z	Removal of Autologous Tissue Substitute from Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SP43JZ	Removal of Synthetic Substitute from Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SP43KZ	Removal of Nonautologous Tissue Substitute from Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SP440Z	Removal of Drainage Device from Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP443Z	Removal of Infusion Device from Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP447Z	Removal of Autologous Tissue Substitute from Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP44JZ	Removal of Synthetic Substitute from Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SP44KZ	Removal of Nonautologous Tissue Substitute from Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP500Z	Removal of Drainage Device from Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SP503Z	Removal of Infusion Device from Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SP504Z	Removal of Internal Fixation Device from Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SP507Z	Removal of Autologous Tissue Substitute from Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SP508Z	Removal of Spacer from Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SP50JZ	Removal of Synthetic Substitute from Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SP50KZ	Removal of Nonautologous Tissue Substitute from Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SP534Z	Removal of Internal Fixation Device from Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP537Z	Removal of Autologous Tissue Substitute from Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP53JZ	Removal of Synthetic Substitute from Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP53KZ	Removal of Nonautologous Tissue Substitute from Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP540Z	Removal of Drainage Device from Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP543Z	Removal of Infusion Device from Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP544Z	Removal of Internal Fixation Device from Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP547Z	Removal of Autologous Tissue Substitute from Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP548Z	Removal of Spacer from Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP54JZ	Removal of Synthetic Substitute from Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP54KZ	Removal of Nonautologous Tissue Substitute from Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP600Z	Removal of Drainage Device from Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SP603Z	Removal of Infusion Device from Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SP604Z	Removal of Internal Fixation Device from Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SP607Z	Removal of Autologous Tissue Substitute from Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SP608Z	Removal of Spacer from Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SP60JZ	Removal of Synthetic Substitute from Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SP60KZ	Removal of Nonautologous Tissue Substitute from Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SP634Z	Removal of Internal Fixation Device from Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP637Z	Removal of Autologous Tissue Substitute from Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SP63JZ	Removal of Synthetic Substitute from Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP63KZ	Removal of Nonautologous Tissue Substitute from Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP640Z	Removal of Drainage Device from Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP643Z	Removal of Infusion Device from Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP644Z	Removal of Internal Fixation Device from Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP647Z	Removal of Autologous Tissue Substitute from Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP648Z	Removal of Spacer from Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP64JZ	Removal of Synthetic Substitute from Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP64KZ	Removal of Nonautologous Tissue Substitute from Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP700Z	Removal of Drainage Device from Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP703Z	Removal of Infusion Device from Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP704Z	Removal of Internal Fixation Device from Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP707Z	Removal of Autologous Tissue Substitute from Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP708Z	Removal of Spacer from Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP70JZ	Removal of Synthetic Substitute from Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP70KZ	Removal of Nonautologous Tissue Substitute from Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP734Z	Removal of Internal Fixation Device from Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP737Z	Removal of Autologous Tissue Substitute from Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP73JZ	Removal of Synthetic Substitute from Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP73KZ	Removal of Nonautologous Tissue Substitute from Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP740Z	Removal of Drainage Device from Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP743Z	Removal of Infusion Device from Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP744Z	Removal of Internal Fixation Device from Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP747Z	Removal of Autologous Tissue Substitute from Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP748Z	Removal of Spacer from Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP74JZ	Removal of Synthetic Substitute from Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SP74KZ	Removal of Nonautologous Tissue Substitute from Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP800Z	Removal of Drainage Device from Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP803Z	Removal of Infusion Device from Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP804Z	Removal of Internal Fixation Device from Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP807Z	Removal of Autologous Tissue Substitute from Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP808Z	Removal of Spacer from Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP80JZ	Removal of Synthetic Substitute from Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP80KZ	Removal of Nonautologous Tissue Substitute from Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SP834Z	Removal of Internal Fixation Device from Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP837Z	Removal of Autologous Tissue Substitute from Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP83JZ	Removal of Synthetic Substitute from Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP83KZ	Removal of Nonautologous Tissue Substitute from Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP840Z	Removal of Drainage Device from Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP843Z	Removal of Infusion Device from Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP844Z	Removal of Internal Fixation Device from Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP847Z	Removal of Autologous Tissue Substitute from Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP848Z	Removal of Spacer from Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP84JZ	Removal of Synthetic Substitute from Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP84KZ	Removal of Nonautologous Tissue Substitute from Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP900Z	Removal of Drainage Device from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SP903Z	Removal of Infusion Device from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SP904Z	Removal of Internal Fixation Device from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SP905Z	Removal of External Fixation Device from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SP907Z	Removal of Autologous Tissue Substitute from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SP908Z	Removal of Spacer from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SP909Z	Removal of Liner from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SP90BZ	Removal of Resurfacing Device from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SP90EZ	Removal of Articulating Spacer from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SP90JZ	Removal of Synthetic Substitute from Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SP90KZ	Removal of Nonautologous Tissue Substitute from Right Hip Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SP934Z	Removal of Internal Fixation Device from Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP935Z	Removal of External Fixation Device from Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP937Z	Removal of Autologous Tissue Substitute from Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP93JZ	Removal of Synthetic Substitute from Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP93KZ	Removal of Nonautologous Tissue Substitute from Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SP940Z	Removal of Drainage Device from Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP943Z	Removal of Infusion Device from Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP944Z	Removal of Internal Fixation Device from Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP945Z	Removal of External Fixation Device from Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP947Z	Removal of Autologous Tissue Substitute from Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP948Z	Removal of Spacer from Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP94JZ	Removal of Synthetic Substitute from Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SP94KZ	Removal of Nonautologous Tissue Substitute from Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPA0JZ	Removal of Synthetic Substitute from Right Hip Joint, Acetabular Surface, Open Approach	PX	ICD-10-PCS
0SPA3JZ	Removal of Synthetic Substitute from Right Hip Joint, Acetabular Surface, Percutaneous Approach	PX	ICD-10-PCS
0SPA4JZ	Removal of Synthetic Substitute from Right Hip Joint, Acetabular Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPB00Z	Removal of Drainage Device from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB03Z	Removal of Infusion Device from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB04Z	Removal of Internal Fixation Device from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB05Z	Removal of External Fixation Device from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB07Z	Removal of Autologous Tissue Substitute from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB08Z	Removal of Spacer from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB09Z	Removal of Liner from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB0BZ	Removal of Resurfacing Device from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB0EZ	Removal of Articulating Spacer from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB0JZ	Removal of Synthetic Substitute from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB0KZ	Removal of Nonautologous Tissue Substitute from Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SPB34Z	Removal of Internal Fixation Device from Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPB35Z	Removal of External Fixation Device from Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPB37Z	Removal of Autologous Tissue Substitute from Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPB3JZ	Removal of Synthetic Substitute from Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPB3KZ	Removal of Nonautologous Tissue Substitute from Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPB40Z	Removal of Drainage Device from Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPB43Z	Removal of Infusion Device from Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPB44Z	Removal of Internal Fixation Device from Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPB45Z	Removal of External Fixation Device from Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPB47Z	Removal of Autologous Tissue Substitute from Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPB48Z	Removal of Spacer from Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPB4JZ	Removal of Synthetic Substitute from Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPB4KZ	Removal of Nonautologous Tissue Substitute from Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC00Z	Removal of Drainage Device from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC03Z	Removal of Infusion Device from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC04Z	Removal of Internal Fixation Device from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC05Z	Removal of External Fixation Device from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC07Z	Removal of Autologous Tissue Substitute from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC08Z	Removal of Spacer from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC09Z	Removal of Liner from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC0EZ	Removal of Articulating Spacer from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC0JC	Removal of Synthetic Substitute from Right Knee Joint, Patellar Surface, Open Approach	PX	ICD-10-PCS
0SPC0JZ	Removal of Synthetic Substitute from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC0KZ	Removal of Nonautologous Tissue Substitute from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC0LZ	Removal of Medial Unicondylar Synthetic Substitute from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC0MZ	Removal of Lateral Unicondylar Synthetic Substitute from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC0NZ	Removal of Patellofemoral Synthetic Substitute from Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SPC34Z	Removal of Internal Fixation Device from Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPC35Z	Removal of External Fixation Device from Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPC37Z	Removal of Autologous Tissue Substitute from Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPC3JC	Removal of Synthetic Substitute from Right Knee Joint, Patellar Surface, Percutaneous Approach	PX	ICD-10-PCS
0SPC3JZ	Removal of Synthetic Substitute from Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPC3KZ	Removal of Nonautologous Tissue Substitute from Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPC3LZ	Removal of Medial Unicondylar Synthetic Substitute from Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPC3MZ	Removal of Lateral Unicondylar Synthetic Substitute from Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPC3NZ	Removal of Patellofemoral Synthetic Substitute from Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPC40Z	Removal of Drainage Device from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC43Z	Removal of Infusion Device from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC44Z	Removal of Internal Fixation Device from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC45Z	Removal of External Fixation Device from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC47Z	Removal of Autologous Tissue Substitute from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC48Z	Removal of Spacer from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC4JC	Removal of Synthetic Substitute from Right Knee Joint, Patellar Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC4JZ	Removal of Synthetic Substitute from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC4KZ	Removal of Nonautologous Tissue Substitute from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC4LZ	Removal of Medial Unicondylar Synthetic Substitute from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC4MZ	Removal of Lateral Unicondylar Synthetic Substitute from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPC4NZ	Removal of Patellofemoral Synthetic Substitute from Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD00Z	Removal of Drainage Device from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD03Z	Removal of Infusion Device from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD04Z	Removal of Internal Fixation Device from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD05Z	Removal of External Fixation Device from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD07Z	Removal of Autologous Tissue Substitute from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD08Z	Removal of Spacer from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD09Z	Removal of Liner from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD0EZ	Removal of Articulating Spacer from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD0JC	Removal of Synthetic Substitute from Left Knee Joint, Patellar Surface, Open Approach	PX	ICD-10-PCS
0SPD0JZ	Removal of Synthetic Substitute from Left Knee Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPD0KZ	Removal of Nonautologous Tissue Substitute from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD0LZ	Removal of Medial Unicondylar Synthetic Substitute from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD0MZ	Removal of Lateral Unicondylar Synthetic Substitute from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD0NZ	Removal of Patellofemoral Synthetic Substitute from Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SPD34Z	Removal of Internal Fixation Device from Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPD35Z	Removal of External Fixation Device from Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPD37Z	Removal of Autologous Tissue Substitute from Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPD3JC	Removal of Synthetic Substitute from Left Knee Joint, Patellar Surface, Percutaneous Approach	PX	ICD-10-PCS
0SPD3JZ	Removal of Synthetic Substitute from Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPD3KZ	Removal of Nonautologous Tissue Substitute from Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPD3LZ	Removal of Medial Unicondylar Synthetic Substitute from Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPD3MZ	Removal of Lateral Unicondylar Synthetic Substitute from Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPD3NZ	Removal of Patellofemoral Synthetic Substitute from Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPD40Z	Removal of Drainage Device from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD43Z	Removal of Infusion Device from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD44Z	Removal of Internal Fixation Device from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD45Z	Removal of External Fixation Device from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD47Z	Removal of Autologous Tissue Substitute from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD48Z	Removal of Spacer from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD4JC	Removal of Synthetic Substitute from Left Knee Joint, Patellar Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD4JZ	Removal of Synthetic Substitute from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD4KZ	Removal of Nonautologous Tissue Substitute from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD4LZ	Removal of Medial Unicondylar Synthetic Substitute from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPD4MZ	Removal of Lateral Unicondylar Synthetic Substitute from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPD4NZ	Removal of Patellofemoral Synthetic Substitute from Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPE0JZ	Removal of Synthetic Substitute from Left Hip Joint, Acetabular Surface, Open Approach	PX	ICD-10-PCS
0SPE3JZ	Removal of Synthetic Substitute from Left Hip Joint, Acetabular Surface, Percutaneous Approach	PX	ICD-10-PCS
0SPE4JZ	Removal of Synthetic Substitute from Left Hip Joint, Acetabular Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPF00Z	Removal of Drainage Device from Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPF03Z	Removal of Infusion Device from Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPF04Z	Removal of Internal Fixation Device from Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPF05Z	Removal of External Fixation Device from Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPF07Z	Removal of Autologous Tissue Substitute from Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPF08Z	Removal of Spacer from Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPF0JZ	Removal of Synthetic Substitute from Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPF0KZ	Removal of Nonautologous Tissue Substitute from Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPF34Z	Removal of Internal Fixation Device from Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPF35Z	Removal of External Fixation Device from Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPF37Z	Removal of Autologous Tissue Substitute from Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPF3JZ	Removal of Synthetic Substitute from Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPF3KZ	Removal of Nonautologous Tissue Substitute from Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPF40Z	Removal of Drainage Device from Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPF43Z	Removal of Infusion Device from Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPF44Z	Removal of Internal Fixation Device from Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPF45Z	Removal of External Fixation Device from Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPF47Z	Removal of Autologous Tissue Substitute from Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPF48Z	Removal of Spacer from Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPF4JZ	Removal of Synthetic Substitute from Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPF4KZ	Removal of Nonautologous Tissue Substitute from Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPG00Z	Removal of Drainage Device from Left Ankle Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPG03Z	Removal of Infusion Device from Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPG04Z	Removal of Internal Fixation Device from Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPG05Z	Removal of External Fixation Device from Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPG07Z	Removal of Autologous Tissue Substitute from Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPG08Z	Removal of Spacer from Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPG0JZ	Removal of Synthetic Substitute from Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPG0KZ	Removal of Nonautologous Tissue Substitute from Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SPG34Z	Removal of Internal Fixation Device from Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPG35Z	Removal of External Fixation Device from Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPG37Z	Removal of Autologous Tissue Substitute from Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPG3JZ	Removal of Synthetic Substitute from Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPG3KZ	Removal of Nonautologous Tissue Substitute from Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPG40Z	Removal of Drainage Device from Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPG43Z	Removal of Infusion Device from Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPG44Z	Removal of Internal Fixation Device from Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPG45Z	Removal of External Fixation Device from Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPG47Z	Removal of Autologous Tissue Substitute from Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPG48Z	Removal of Spacer from Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPG4JZ	Removal of Synthetic Substitute from Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPG4KZ	Removal of Nonautologous Tissue Substitute from Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPH00Z	Removal of Drainage Device from Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPH03Z	Removal of Infusion Device from Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPH04Z	Removal of Internal Fixation Device from Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPH05Z	Removal of External Fixation Device from Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPH07Z	Removal of Autologous Tissue Substitute from Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPH08Z	Removal of Spacer from Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPH0JZ	Removal of Synthetic Substitute from Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPH0KZ	Removal of Nonautologous Tissue Substitute from Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPH34Z	Removal of Internal Fixation Device from Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPH35Z	Removal of External Fixation Device from Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPH37Z	Removal of Autologous Tissue Substitute from Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPH3JZ	Removal of Synthetic Substitute from Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPH3KZ	Removal of Nonautologous Tissue Substitute from Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPH40Z	Removal of Drainage Device from Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPH43Z	Removal of Infusion Device from Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPH44Z	Removal of Internal Fixation Device from Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPH45Z	Removal of External Fixation Device from Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPH47Z	Removal of Autologous Tissue Substitute from Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPH48Z	Removal of Spacer from Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPH4JZ	Removal of Synthetic Substitute from Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPH4KZ	Removal of Nonautologous Tissue Substitute from Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPJ00Z	Removal of Drainage Device from Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPJ03Z	Removal of Infusion Device from Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPJ04Z	Removal of Internal Fixation Device from Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPJ05Z	Removal of External Fixation Device from Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPJ07Z	Removal of Autologous Tissue Substitute from Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPJ08Z	Removal of Spacer from Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPJ0JZ	Removal of Synthetic Substitute from Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPJ0KZ	Removal of Nonautologous Tissue Substitute from Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SPJ34Z	Removal of Internal Fixation Device from Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPJ35Z	Removal of External Fixation Device from Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPJ37Z	Removal of Autologous Tissue Substitute from Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPJ3JZ	Removal of Synthetic Substitute from Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPJ3KZ	Removal of Nonautologous Tissue Substitute from Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPJ40Z	Removal of Drainage Device from Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPJ43Z	Removal of Infusion Device from Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPJ44Z	Removal of Internal Fixation Device from Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPJ45Z	Removal of External Fixation Device from Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPJ47Z	Removal of Autologous Tissue Substitute from Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPJ48Z	Removal of Spacer from Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPJ4JZ	Removal of Synthetic Substitute from Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPJ4KZ	Removal of Nonautologous Tissue Substitute from Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPK00Z	Removal of Drainage Device from Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPK03Z	Removal of Infusion Device from Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPK04Z	Removal of Internal Fixation Device from Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPK05Z	Removal of External Fixation Device from Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPK07Z	Removal of Autologous Tissue Substitute from Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPK08Z	Removal of Spacer from Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPK0JZ	Removal of Synthetic Substitute from Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPK0KZ	Removal of Nonautologous Tissue Substitute from Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPK34Z	Removal of Internal Fixation Device from Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPK35Z	Removal of External Fixation Device from Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPK37Z	Removal of Autologous Tissue Substitute from Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPK3JZ	Removal of Synthetic Substitute from Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPK3KZ	Removal of Nonautologous Tissue Substitute from Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPK40Z	Removal of Drainage Device from Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPK43Z	Removal of Infusion Device from Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPK44Z	Removal of Internal Fixation Device from Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPK45Z	Removal of External Fixation Device from Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPK47Z	Removal of Autologous Tissue Substitute from Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPK48Z	Removal of Spacer from Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPK4JZ	Removal of Synthetic Substitute from Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPK4KZ	Removal of Nonautologous Tissue Substitute from Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPL00Z	Removal of Drainage Device from Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPL03Z	Removal of Infusion Device from Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPL04Z	Removal of Internal Fixation Device from Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPL05Z	Removal of External Fixation Device from Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPL07Z	Removal of Autologous Tissue Substitute from Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPL08Z	Removal of Spacer from Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPL0JZ	Removal of Synthetic Substitute from Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPL0KZ	Removal of Nonautologous Tissue Substitute from Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SPL34Z	Removal of Internal Fixation Device from Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPL35Z	Removal of External Fixation Device from Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPL37Z	Removal of Autologous Tissue Substitute from Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPL3JZ	Removal of Synthetic Substitute from Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPL3KZ	Removal of Nonautologous Tissue Substitute from Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPL40Z	Removal of Drainage Device from Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPL43Z	Removal of Infusion Device from Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPL44Z	Removal of Internal Fixation Device from Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPL45Z	Removal of External Fixation Device from Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPL47Z	Removal of Autologous Tissue Substitute from Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPL48Z	Removal of Spacer from Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPL4JZ	Removal of Synthetic Substitute from Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPL4KZ	Removal of Nonautologous Tissue Substitute from Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPM00Z	Removal of Drainage Device from Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPM03Z	Removal of Infusion Device from Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPM04Z	Removal of Internal Fixation Device from Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPM05Z	Removal of External Fixation Device from Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPM07Z	Removal of Autologous Tissue Substitute from Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPM08Z	Removal of Spacer from Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPM0JZ	Removal of Synthetic Substitute from Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPM0KZ	Removal of Nonautologous Tissue Substitute from Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPM34Z	Removal of Internal Fixation Device from Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPM35Z	Removal of External Fixation Device from Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPM37Z	Removal of Autologous Tissue Substitute from Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPM3JZ	Removal of Synthetic Substitute from Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPM3KZ	Removal of Nonautologous Tissue Substitute from Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPM40Z	Removal of Drainage Device from Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPM43Z	Removal of Infusion Device from Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPM44Z	Removal of Internal Fixation Device from Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPM45Z	Removal of External Fixation Device from Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPM47Z	Removal of Autologous Tissue Substitute from Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPM48Z	Removal of Spacer from Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPM4JZ	Removal of Synthetic Substitute from Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPM4KZ	Removal of Nonautologous Tissue Substitute from Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPN00Z	Removal of Drainage Device from Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPN03Z	Removal of Infusion Device from Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPN04Z	Removal of Internal Fixation Device from Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPN05Z	Removal of External Fixation Device from Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPN07Z	Removal of Autologous Tissue Substitute from Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPN08Z	Removal of Spacer from Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPN0JZ	Removal of Synthetic Substitute from Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPN0KZ	Removal of Nonautologous Tissue Substitute from Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPN34Z	Removal of Internal Fixation Device from Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPN35Z	Removal of External Fixation Device from Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPN37Z	Removal of Autologous Tissue Substitute from Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPN3JZ	Removal of Synthetic Substitute from Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPN3KZ	Removal of Nonautologous Tissue Substitute from Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPN40Z	Removal of Drainage Device from Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPN43Z	Removal of Infusion Device from Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPN44Z	Removal of Internal Fixation Device from Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPN45Z	Removal of External Fixation Device from Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPN47Z	Removal of Autologous Tissue Substitute from Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPN48Z	Removal of Spacer from Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPN4JZ	Removal of Synthetic Substitute from Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPN4KZ	Removal of Nonautologous Tissue Substitute from Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPP00Z	Removal of Drainage Device from Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPP03Z	Removal of Infusion Device from Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPP04Z	Removal of Internal Fixation Device from Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPP05Z	Removal of External Fixation Device from Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPP07Z	Removal of Autologous Tissue Substitute from Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPP08Z	Removal of Spacer from Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPP0JZ	Removal of Synthetic Substitute from Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPP0KZ	Removal of Nonautologous Tissue Substitute from Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPP34Z	Removal of Internal Fixation Device from Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPP35Z	Removal of External Fixation Device from Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPP37Z	Removal of Autologous Tissue Substitute from Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPP3JZ	Removal of Synthetic Substitute from Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPP3KZ	Removal of Nonautologous Tissue Substitute from Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPP40Z	Removal of Drainage Device from Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPP43Z	Removal of Infusion Device from Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPP44Z	Removal of Internal Fixation Device from Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPP45Z	Removal of External Fixation Device from Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPP47Z	Removal of Autologous Tissue Substitute from Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPP48Z	Removal of Spacer from Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPP4JZ	Removal of Synthetic Substitute from Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPP4KZ	Removal of Nonautologous Tissue Substitute from Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPQ00Z	Removal of Drainage Device from Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPQ03Z	Removal of Infusion Device from Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPQ04Z	Removal of Internal Fixation Device from Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPQ05Z	Removal of External Fixation Device from Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPQ07Z	Removal of Autologous Tissue Substitute from Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPQ08Z	Removal of Spacer from Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPQ0JZ	Removal of Synthetic Substitute from Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPQ0KZ	Removal of Nonautologous Tissue Substitute from Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SPQ34Z	Removal of Internal Fixation Device from Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPQ35Z	Removal of External Fixation Device from Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPQ37Z	Removal of Autologous Tissue Substitute from Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPQ3JZ	Removal of Synthetic Substitute from Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPQ3KZ	Removal of Nonautologous Tissue Substitute from Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SPQ40Z	Removal of Drainage Device from Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPQ43Z	Removal of Infusion Device from Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPQ44Z	Removal of Internal Fixation Device from Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPQ45Z	Removal of External Fixation Device from Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPQ47Z	Removal of Autologous Tissue Substitute from Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPQ48Z	Removal of Spacer from Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPQ4JZ	Removal of Synthetic Substitute from Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPQ4KZ	Removal of Nonautologous Tissue Substitute from Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPR0JZ	Removal of Synthetic Substitute from Right Hip Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS
0SPR3JZ	Removal of Synthetic Substitute from Right Hip Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
0SPR4JZ	Removal of Synthetic Substitute from Right Hip Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPS0JZ	Removal of Synthetic Substitute from Left Hip Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS
0SPS3JZ	Removal of Synthetic Substitute from Left Hip Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
0SPS4JZ	Removal of Synthetic Substitute from Left Hip Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPT0JZ	Removal of Synthetic Substitute from Right Knee Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS
0SPT3JZ	Removal of Synthetic Substitute from Right Knee Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
0SPT4JZ	Removal of Synthetic Substitute from Right Knee Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPU0JZ	Removal of Synthetic Substitute from Left Knee Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SPU3JZ	Removal of Synthetic Substitute from Left Knee Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
0SPU4JZ	Removal of Synthetic Substitute from Left Knee Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPV0JZ	Removal of Synthetic Substitute from Right Knee Joint, Tibial Surface, Open Approach	PX	ICD-10-PCS
0SPV3JZ	Removal of Synthetic Substitute from Right Knee Joint, Tibial Surface, Percutaneous Approach	PX	ICD-10-PCS
0SPV4JZ	Removal of Synthetic Substitute from Right Knee Joint, Tibial Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SPW0JZ	Removal of Synthetic Substitute from Left Knee Joint, Tibial Surface, Open Approach	PX	ICD-10-PCS
0SPW3JZ	Removal of Synthetic Substitute from Left Knee Joint, Tibial Surface, Percutaneous Approach	PX	ICD-10-PCS
0SPW4JZ	Removal of Synthetic Substitute from Left Knee Joint, Tibial Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQ00ZZ	Repair Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SQ03ZZ	Repair Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQ04ZZ	Repair Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQ20ZZ	Repair Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SQ23ZZ	Repair Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SQ24ZZ	Repair Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQ30ZZ	Repair Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SQ33ZZ	Repair Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQ34ZZ	Repair Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQ40ZZ	Repair Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SQ43ZZ	Repair Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SQ44ZZ	Repair Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQ50ZZ	Repair Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SQ53ZZ	Repair Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQ54ZZ	Repair Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQ60ZZ	Repair Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SQ63ZZ	Repair Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQ64ZZ	Repair Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQ70ZZ	Repair Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SQ73ZZ	Repair Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQ74ZZ	Repair Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQ80ZZ	Repair Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SQ83ZZ	Repair Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQ84ZZ	Repair Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQ90ZZ	Repair Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SQ93ZZ	Repair Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQ94ZZ	Repair Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQB0ZZ	Repair Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SQB3ZZ	Repair Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SQB4ZZ	Repair Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQC0ZZ	Repair Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SQC3ZZ	Repair Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQC4ZZ	Repair Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQD0ZZ	Repair Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SQD3ZZ	Repair Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQD4ZZ	Repair Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQF0ZZ	Repair Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SQF3ZZ	Repair Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQF4ZZ	Repair Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQG0ZZ	Repair Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SQG3ZZ	Repair Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQG4ZZ	Repair Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQH0ZZ	Repair Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SQH3ZZ	Repair Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQH4ZZ	Repair Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQJ0ZZ	Repair Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SQJ3ZZ	Repair Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQJ4ZZ	Repair Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQK0ZZ	Repair Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SQK3ZZ	Repair Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQK4ZZ	Repair Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQL0ZZ	Repair Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SQL3ZZ	Repair Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQL4ZZ	Repair Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQM0ZZ	Repair Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SQM3ZZ	Repair Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQM4ZZ	Repair Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQN0ZZ	Repair Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SQN3ZZ	Repair Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQN4ZZ	Repair Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQP0ZZ	Repair Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SQP3ZZ	Repair Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQP4ZZ	Repair Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SQQ0ZZ	Repair Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SQQ3ZZ	Repair Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SQQ4ZZ	Repair Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SR007Z	Replacement of Lumbar Vertebral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR00JZ	Replacement of Lumbar Vertebral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR00KZ	Replacement of Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR207Z	Replacement of Lumbar Vertebral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SR20JZ	Replacement of Lumbar Vertebral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR20KZ	Replacement of Lumbar Vertebral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR307Z	Replacement of Lumbosacral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR30JZ	Replacement of Lumbosacral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR30KZ	Replacement of Lumbosacral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR407Z	Replacement of Lumbosacral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR40JZ	Replacement of Lumbosacral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR40KZ	Replacement of Lumbosacral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR507Z	Replacement of Sacrococcygeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR50JZ	Replacement of Sacrococcygeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR50KZ	Replacement of Sacrococcygeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR607Z	Replacement of Coccygeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR60JZ	Replacement of Coccygeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR60KZ	Replacement of Coccygeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR707Z	Replacement of Right Sacroiliac Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR70JZ	Replacement of Right Sacroiliac Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR70KZ	Replacement of Right Sacroiliac Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR807Z	Replacement of Left Sacroiliac Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR80JZ	Replacement of Left Sacroiliac Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR80KZ	Replacement of Left Sacroiliac Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR9019	Replacement of Right Hip Joint with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SR901A	Replacement of Right Hip Joint with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SR901Z	Replacement of Right Hip Joint with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR9029	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SR902A	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SR902Z	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SR9039	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SR903A	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SR903Z	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR9049	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SR904A	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SR904Z	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR9069	Replacement of Right Hip Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SR906A	Replacement of Right Hip Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SR906Z	Replacement of Right Hip Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR907Z	Replacement of Right Hip Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SR90EZ	Replacement of Right Hip Joint with Articulating Spacer, Open Approach	PX	ICD-10-PCS
0SR90J9	Replacement of Right Hip Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SR90JA	Replacement of Right Hip Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SR90JZ	Replacement of Right Hip Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR90KZ	Replacement of Right Hip Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRA009	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRA00A	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRA00Z	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRA019	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRA01A	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRA01Z	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRA039	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRA03A	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SRA03Z	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRA07Z	Replacement of Right Hip Joint, Acetabular Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRA0J9	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRA0JA	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRA0JZ	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRA0KZ	Replacement of Right Hip Joint, Acetabular Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRB019	Replacement of Left Hip Joint with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRB01A	Replacement of Left Hip Joint with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRB01Z	Replacement of Left Hip Joint with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRB029	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRB02A	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRB02Z	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRB039	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRB03A	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRB03Z	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRB049	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRB04A	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRB04Z	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRB069	Replacement of Left Hip Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRB06A	Replacement of Left Hip Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRB06Z	Replacement of Left Hip Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRB07Z	Replacement of Left Hip Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRB0EZ	Replacement of Left Hip Joint with Articulating Spacer, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SRB0J9	Replacement of Left Hip Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRB0JA	Replacement of Left Hip Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRB0JZ	Replacement of Left Hip Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRB0KZ	Replacement of Left Hip Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRC069	Replacement of Right Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRC06A	Replacement of Right Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRC06Z	Replacement of Right Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRC07Z	Replacement of Right Knee Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRC0EZ	Replacement of Right Knee Joint with Articulating Spacer, Open Approach	PX	ICD-10-PCS
0SRC0J9	Replacement of Right Knee Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRC0JA	Replacement of Right Knee Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRC0JZ	Replacement of Right Knee Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRC0KZ	Replacement of Right Knee Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRC0L9	Replacement of Right Knee Joint with Medial Unicondylar Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRC0LA	Replacement of Right Knee Joint with Medial Unicondylar Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRC0LZ	Replacement of Right Knee Joint with Medial Unicondylar Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRC0M9	Replacement of Right Knee Joint with Lateral Unicondylar Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRC0MA	Replacement of Right Knee Joint with Lateral Unicondylar Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRC0MZ	Replacement of Right Knee Joint with Lateral Unicondylar Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRC0N9	Replacement of Right Knee Joint with Patellofemoral Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRC0NA	Replacement of Right Knee Joint with Patellofemoral Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRC0NZ	Replacement of Right Knee Joint with Patellofemoral Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRD069	Replacement of Left Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRD06A	Replacement of Left Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SRD06Z	Replacement of Left Knee Joint with Oxidized Zirconium on Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRD07Z	Replacement of Left Knee Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRD0EZ	Replacement of Left Knee Joint with Articulating Spacer, Open Approach	PX	ICD-10-PCS
0SRD0J9	Replacement of Left Knee Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRD0JA	Replacement of Left Knee Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRD0JZ	Replacement of Left Knee Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRD0KZ	Replacement of Left Knee Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRD0L9	Replacement of Left Knee Joint with Medial Unicondylar Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRD0LA	Replacement of Left Knee Joint with Medial Unicondylar Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRD0LZ	Replacement of Left Knee Joint with Medial Unicondylar Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRD0M9	Replacement of Left Knee Joint with Lateral Unicondylar Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRD0MA	Replacement of Left Knee Joint with Lateral Unicondylar Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRD0MZ	Replacement of Left Knee Joint with Lateral Unicondylar Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRD0N9	Replacement of Left Knee Joint with Patellofemoral Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRD0NA	Replacement of Left Knee Joint with Patellofemoral Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRD0NZ	Replacement of Left Knee Joint with Patellofemoral Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRE009	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRE00A	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRE00Z	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRE019	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRE01A	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRE01Z	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRE039	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SRE03A	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRE03Z	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRE07Z	Replacement of Left Hip Joint, Acetabular Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRE0J9	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRE0JA	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRE0JZ	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRE0KZ	Replacement of Left Hip Joint, Acetabular Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRF07Z	Replacement of Right Ankle Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRF0J9	Replacement of Right Ankle Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRF0JA	Replacement of Right Ankle Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRF0JZ	Replacement of Right Ankle Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRF0KZ	Replacement of Right Ankle Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRG07Z	Replacement of Left Ankle Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRG0J9	Replacement of Left Ankle Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRG0JA	Replacement of Left Ankle Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRG0JZ	Replacement of Left Ankle Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRG0KZ	Replacement of Left Ankle Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRH07Z	Replacement of Right Tarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRH0JZ	Replacement of Right Tarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRH0KZ	Replacement of Right Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRJ07Z	Replacement of Left Tarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRJ0JZ	Replacement of Left Tarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRJ0KZ	Replacement of Left Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRK07Z	Replacement of Right Tarsometatarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SRK0JZ	Replacement of Right Tarsometatarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRK0KZ	Replacement of Right Tarsometatarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRL07Z	Replacement of Left Tarsometatarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRL0JZ	Replacement of Left Tarsometatarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRL0KZ	Replacement of Left Tarsometatarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRM07Z	Replacement of Right Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRM0JZ	Replacement of Right Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRM0KZ	Replacement of Right Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRN07Z	Replacement of Left Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRN0JZ	Replacement of Left Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRN0KZ	Replacement of Left Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRP07Z	Replacement of Right Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRP0JZ	Replacement of Right Toe Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRP0KZ	Replacement of Right Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRQ07Z	Replacement of Left Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRQ0JZ	Replacement of Left Toe Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRQ0KZ	Replacement of Left Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRR019	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRR01A	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRR01Z	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRR039	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRR03A	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SRR03Z	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRR07Z	Replacement of Right Hip Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRR0J9	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRR0JA	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRR0JZ	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRR0KZ	Replacement of Right Hip Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRS019	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRS01A	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRS01Z	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRS039	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRS03A	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRS03Z	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRS07Z	Replacement of Left Hip Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRS0J9	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRS0JA	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRS0JZ	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRS0KZ	Replacement of Left Hip Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRT07Z	Replacement of Right Knee Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRT0J9	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRT0JA	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRT0JZ	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRT0KZ	Replacement of Right Knee Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SRU07Z	Replacement of Left Knee Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRU0J9	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRU0JA	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRU0JZ	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRU0KZ	Replacement of Left Knee Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRV07Z	Replacement of Right Knee Joint, Tibial Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRV0J9	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRV0JA	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRV0JZ	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRV0KZ	Replacement of Right Knee Joint, Tibial Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRW07Z	Replacement of Left Knee Joint, Tibial Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRW0J9	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRW0JA	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRW0JZ	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRW0KZ	Replacement of Left Knee Joint, Tibial Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SS004Z	Reposition Lumbar Vertebral Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SS00ZZ	Reposition Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SS034Z	Reposition Lumbar Vertebral Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SS044Z	Reposition Lumbar Vertebral Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS04ZZ	Reposition Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS304Z	Reposition Lumbosacral Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SS30ZZ	Reposition Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SS334Z	Reposition Lumbosacral Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SS344Z	Reposition Lumbosacral Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS34ZZ	Reposition Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS504Z	Reposition Sacrococcygeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SS50ZZ	Reposition Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SS534Z	Reposition Sacrococcygeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SS544Z	Reposition Sacrococcygeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS54ZZ	Reposition Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS604Z	Reposition Coccygeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SS60ZZ	Reposition Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SS634Z	Reposition Coccygeal Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SS644Z	Reposition Coccygeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS64ZZ	Reposition Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS704Z	Reposition Right Sacroiliac Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SS70ZZ	Reposition Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SS734Z	Reposition Right Sacroiliac Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SS744Z	Reposition Right Sacroiliac Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS74ZZ	Reposition Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS804Z	Reposition Left Sacroiliac Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SS80ZZ	Reposition Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SS834Z	Reposition Left Sacroiliac Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SS844Z	Reposition Left Sacroiliac Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS84ZZ	Reposition Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS904Z	Reposition Right Hip Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SS905Z	Reposition Right Hip Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SS90ZZ	Reposition Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SS934Z	Reposition Right Hip Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SS944Z	Reposition Right Hip Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS945Z	Reposition Right Hip Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SS94ZZ	Reposition Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSB04Z	Reposition Left Hip Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSB05Z	Reposition Left Hip Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSB0ZZ	Reposition Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SSB34Z	Reposition Left Hip Joint with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-PCS
0SSB44Z	Reposition Left Hip Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSB45Z	Reposition Left Hip Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSB4ZZ	Reposition Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SSC04Z	Reposition Right Knee Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSC05Z	Reposition Right Knee Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSC0ZZ	Reposition Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SSC44Z	Reposition Right Knee Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSC45Z	Reposition Right Knee Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSC4ZZ	Reposition Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSD04Z	Reposition Left Knee Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSD05Z	Reposition Left Knee Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSD0ZZ	Reposition Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SSD44Z	Reposition Left Knee Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSD45Z	Reposition Left Knee Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSD4ZZ	Reposition Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSF04Z	Reposition Right Ankle Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSF05Z	Reposition Right Ankle Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSF0ZZ	Reposition Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SSF44Z	Reposition Right Ankle Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSF45Z	Reposition Right Ankle Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSF4ZZ	Reposition Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSG04Z	Reposition Left Ankle Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSG05Z	Reposition Left Ankle Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSG0ZZ	Reposition Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SSG44Z	Reposition Left Ankle Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSG45Z	Reposition Left Ankle Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSG4ZZ	Reposition Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSH04Z	Reposition Right Tarsal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSH05Z	Reposition Right Tarsal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSH0ZZ	Reposition Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SSH44Z	Reposition Right Tarsal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSH45Z	Reposition Right Tarsal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSH4ZZ	Reposition Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSJ04Z	Reposition Left Tarsal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSJ05Z	Reposition Left Tarsal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSJ0ZZ	Reposition Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SSJ44Z	Reposition Left Tarsal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SSJ45Z	Reposition Left Tarsal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSJ4ZZ	Reposition Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSK04Z	Reposition Right Tarsometatarsal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSK05Z	Reposition Right Tarsometatarsal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSK0ZZ	Reposition Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SSK44Z	Reposition Right Tarsometatarsal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSK45Z	Reposition Right Tarsometatarsal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSK4ZZ	Reposition Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSL04Z	Reposition Left Tarsometatarsal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSL05Z	Reposition Left Tarsometatarsal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSL0ZZ	Reposition Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SSL44Z	Reposition Left Tarsometatarsal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSL45Z	Reposition Left Tarsometatarsal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSL4ZZ	Reposition Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSM04Z	Reposition Right Metatarsal-Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSM05Z	Reposition Right Metatarsal-Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSM0ZZ	Reposition Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SSM44Z	Reposition Right Metatarsal-Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSM45Z	Reposition Right Metatarsal-Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSM4ZZ	Reposition Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSN04Z	Reposition Left Metatarsal-Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSN05Z	Reposition Left Metatarsal-Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSN0ZZ	Reposition Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SSN44Z	Reposition Left Metatarsal-Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSN45Z	Reposition Left Metatarsal-Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSN4ZZ	Reposition Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SSP04Z	Reposition Right Toe Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSP05Z	Reposition Right Toe Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSP0ZZ	Reposition Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SSP44Z	Reposition Right Toe Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSP45Z	Reposition Right Toe Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSP4ZZ	Reposition Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSQ04Z	Reposition Left Toe Phalangeal Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
0SSQ05Z	Reposition Left Toe Phalangeal Joint with External Fixation Device, Open Approach	PX	ICD-10-PCS
0SSQ0ZZ	Reposition Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SSQ44Z	Reposition Left Toe Phalangeal Joint with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSQ45Z	Reposition Left Toe Phalangeal Joint with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SSQ4ZZ	Reposition Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0ST20ZZ	Resection of Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0ST40ZZ	Resection of Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0ST50ZZ	Resection of Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0ST60ZZ	Resection of Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0ST70ZZ	Resection of Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0ST80ZZ	Resection of Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0ST90ZZ	Resection of Right Hip Joint, Open Approach	PX	ICD-10-PCS
0STB0ZZ	Resection of Left Hip Joint, Open Approach	PX	ICD-10-PCS
0STC0ZZ	Resection of Right Knee Joint, Open Approach	PX	ICD-10-PCS
0STD0ZZ	Resection of Left Knee Joint, Open Approach	PX	ICD-10-PCS
0STF0ZZ	Resection of Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0STG0ZZ	Resection of Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0STH0ZZ	Resection of Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0STJ0ZZ	Resection of Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0STK0ZZ	Resection of Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0STL0ZZ	Resection of Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0STM0ZZ	Resection of Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0STN0ZZ	Resection of Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0STP0ZZ	Resection of Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0STQ0ZZ	Resection of Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SU007Z	Supplement Lumbar Vertebral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU00JZ	Supplement Lumbar Vertebral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SU00KZ	Supplement Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SU037Z	Supplement Lumbar Vertebral Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU03JZ	Supplement Lumbar Vertebral Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU03KZ	Supplement Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU047Z	Supplement Lumbar Vertebral Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU04JZ	Supplement Lumbar Vertebral Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU04KZ	Supplement Lumbar Vertebral Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU207Z	Supplement Lumbar Vertebral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU20JZ	Supplement Lumbar Vertebral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SU20KZ	Supplement Lumbar Vertebral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU237Z	Supplement Lumbar Vertebral Disc with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU23JZ	Supplement Lumbar Vertebral Disc with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU23KZ	Supplement Lumbar Vertebral Disc with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU247Z	Supplement Lumbar Vertebral Disc with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU24JZ	Supplement Lumbar Vertebral Disc with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU24KZ	Supplement Lumbar Vertebral Disc with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU307Z	Supplement Lumbosacral Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU30JZ	Supplement Lumbosacral Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SU30KZ	Supplement Lumbosacral Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU337Z	Supplement Lumbosacral Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU33JZ	Supplement Lumbosacral Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU33KZ	Supplement Lumbosacral Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU347Z	Supplement Lumbosacral Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU34JZ	Supplement Lumbosacral Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SU34KZ	Supplement Lumbosacral Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU407Z	Supplement Lumbosacral Disc with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU40JZ	Supplement Lumbosacral Disc with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SU40KZ	Supplement Lumbosacral Disc with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU437Z	Supplement Lumbosacral Disc with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU43JZ	Supplement Lumbosacral Disc with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU43KZ	Supplement Lumbosacral Disc with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU447Z	Supplement Lumbosacral Disc with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU44JZ	Supplement Lumbosacral Disc with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU44KZ	Supplement Lumbosacral Disc with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU507Z	Supplement Sacrococcygeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU50JZ	Supplement Sacrococcygeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SU50KZ	Supplement Sacrococcygeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU537Z	Supplement Sacrococcygeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU53JZ	Supplement Sacrococcygeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU53KZ	Supplement Sacrococcygeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU547Z	Supplement Sacrococcygeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU54JZ	Supplement Sacrococcygeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU54KZ	Supplement Sacrococcygeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU607Z	Supplement Coccygeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU60JZ	Supplement Coccygeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SU60KZ	Supplement Coccygeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU637Z	Supplement Coccygeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU63JZ	Supplement Coccygeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU63KZ	Supplement Coccygeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SU647Z	Supplement Coccygeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU64JZ	Supplement Coccygeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU64KZ	Supplement Coccygeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU707Z	Supplement Right Sacroiliac Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU70JZ	Supplement Right Sacroiliac Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SU70KZ	Supplement Right Sacroiliac Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU737Z	Supplement Right Sacroiliac Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU73JZ	Supplement Right Sacroiliac Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU73KZ	Supplement Right Sacroiliac Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU747Z	Supplement Right Sacroiliac Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU74JZ	Supplement Right Sacroiliac Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU74KZ	Supplement Right Sacroiliac Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU807Z	Supplement Left Sacroiliac Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU80JZ	Supplement Left Sacroiliac Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SU80KZ	Supplement Left Sacroiliac Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU837Z	Supplement Left Sacroiliac Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU83JZ	Supplement Left Sacroiliac Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU83KZ	Supplement Left Sacroiliac Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU847Z	Supplement Left Sacroiliac Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU84JZ	Supplement Left Sacroiliac Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU84KZ	Supplement Left Sacroiliac Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU907Z	Supplement Right Hip Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU909Z	Supplement Right Hip Joint with Liner, Open Approach	PX	ICD-10-PCS
0SU90BZ	Supplement Right Hip Joint with Resurfacing Device, Open Approach	PX	ICD-10-PCS
0SU90JZ	Supplement Right Hip Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SU90KZ	Supplement Right Hip Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SU937Z	Supplement Right Hip Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU93JZ	Supplement Right Hip Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU93KZ	Supplement Right Hip Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SU947Z	Supplement Right Hip Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU94JZ	Supplement Right Hip Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SU94KZ	Supplement Right Hip Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUA09Z	Supplement Right Hip Joint, Acetabular Surface with Liner, Open Approach	PX	ICD-10-PCS
0SUA0BZ	Supplement Right Hip Joint, Acetabular Surface with Resurfacing Device, Open Approach	PX	ICD-10-PCS
0SUB07Z	Supplement Left Hip Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUB09Z	Supplement Left Hip Joint with Liner, Open Approach	PX	ICD-10-PCS
0SUB0BZ	Supplement Left Hip Joint with Resurfacing Device, Open Approach	PX	ICD-10-PCS
0SUB0JZ	Supplement Left Hip Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUB0KZ	Supplement Left Hip Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUB37Z	Supplement Left Hip Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUB3JZ	Supplement Left Hip Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUB3KZ	Supplement Left Hip Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUB47Z	Supplement Left Hip Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUB4JZ	Supplement Left Hip Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUB4KZ	Supplement Left Hip Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUC07Z	Supplement Right Knee Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUC09C	Supplement Right Knee Joint with Liner, Patellar Surface, Open Approach	PX	ICD-10-PCS
0SUC09Z	Supplement Right Knee Joint with Liner, Open Approach	PX	ICD-10-PCS
0SUC0JZ	Supplement Right Knee Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUC0KZ	Supplement Right Knee Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUC37Z	Supplement Right Knee Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUC3JZ	Supplement Right Knee Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUC3KZ	Supplement Right Knee Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SUC47Z	Supplement Right Knee Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUC4JZ	Supplement Right Knee Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUC4KZ	Supplement Right Knee Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUD07Z	Supplement Left Knee Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUD09C	Supplement Left Knee Joint with Liner, Patellar Surface, Open Approach	PX	ICD-10-PCS
0SUD09Z	Supplement Left Knee Joint with Liner, Open Approach	PX	ICD-10-PCS
0SUD0JZ	Supplement Left Knee Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUD0KZ	Supplement Left Knee Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUD37Z	Supplement Left Knee Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUD3JZ	Supplement Left Knee Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUD3KZ	Supplement Left Knee Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUD47Z	Supplement Left Knee Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUD4JZ	Supplement Left Knee Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUD4KZ	Supplement Left Knee Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUE09Z	Supplement Left Hip Joint, Acetabular Surface with Liner, Open Approach	PX	ICD-10-PCS
0SUE0BZ	Supplement Left Hip Joint, Acetabular Surface with Resurfacing Device, Open Approach	PX	ICD-10-PCS
0SUF07Z	Supplement Right Ankle Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUF0JZ	Supplement Right Ankle Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUF0KZ	Supplement Right Ankle Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUF37Z	Supplement Right Ankle Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUF3JZ	Supplement Right Ankle Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUF3KZ	Supplement Right Ankle Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUF47Z	Supplement Right Ankle Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUF4JZ	Supplement Right Ankle Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUF4KZ	Supplement Right Ankle Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUG07Z	Supplement Left Ankle Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUG0JZ	Supplement Left Ankle Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SUG0KZ	Supplement Left Ankle Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUG37Z	Supplement Left Ankle Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUG3JZ	Supplement Left Ankle Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUG3KZ	Supplement Left Ankle Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUG47Z	Supplement Left Ankle Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUG4JZ	Supplement Left Ankle Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUG4KZ	Supplement Left Ankle Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUH07Z	Supplement Right Tarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUH0JZ	Supplement Right Tarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUH0KZ	Supplement Right Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUH37Z	Supplement Right Tarsal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUH3JZ	Supplement Right Tarsal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUH3KZ	Supplement Right Tarsal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUH47Z	Supplement Right Tarsal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUH4JZ	Supplement Right Tarsal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUH4KZ	Supplement Right Tarsal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUJ07Z	Supplement Left Tarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUJ0JZ	Supplement Left Tarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUJ0KZ	Supplement Left Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUJ37Z	Supplement Left Tarsal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUJ3JZ	Supplement Left Tarsal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUJ3KZ	Supplement Left Tarsal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUJ47Z	Supplement Left Tarsal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUJ4JZ	Supplement Left Tarsal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUJ4KZ	Supplement Left Tarsal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SUK07Z	Supplement Right Tarsometatarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUK0JZ	Supplement Right Tarsometatarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUK0KZ	Supplement Right Tarsometatarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUK37Z	Supplement Right Tarsometatarsal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUK3JZ	Supplement Right Tarsometatarsal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUK3KZ	Supplement Right Tarsometatarsal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUK47Z	Supplement Right Tarsometatarsal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUK4JZ	Supplement Right Tarsometatarsal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUK4KZ	Supplement Right Tarsometatarsal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUL07Z	Supplement Left Tarsometatarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUL0JZ	Supplement Left Tarsometatarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUL0KZ	Supplement Left Tarsometatarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUL37Z	Supplement Left Tarsometatarsal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUL3JZ	Supplement Left Tarsometatarsal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUL3KZ	Supplement Left Tarsometatarsal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUL47Z	Supplement Left Tarsometatarsal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUL4JZ	Supplement Left Tarsometatarsal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUL4KZ	Supplement Left Tarsometatarsal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUM07Z	Supplement Right Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUM0JZ	Supplement Right Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUM0KZ	Supplement Right Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUM37Z	Supplement Right Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SUM3JZ	Supplement Right Metatarsal-Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUM3KZ	Supplement Right Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUM47Z	Supplement Right Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUM4JZ	Supplement Right Metatarsal-Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUM4KZ	Supplement Right Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUN07Z	Supplement Left Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUN0JZ	Supplement Left Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUN0KZ	Supplement Left Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUN37Z	Supplement Left Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUN3JZ	Supplement Left Metatarsal-Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUN3KZ	Supplement Left Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUN47Z	Supplement Left Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUN4JZ	Supplement Left Metatarsal-Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUN4KZ	Supplement Left Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUP07Z	Supplement Right Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUP0JZ	Supplement Right Toe Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUP0KZ	Supplement Right Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUP37Z	Supplement Right Toe Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUP3JZ	Supplement Right Toe Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUP3KZ	Supplement Right Toe Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUP47Z	Supplement Right Toe Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUP4JZ	Supplement Right Toe Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SUP4KZ	Supplement Right Toe Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUQ07Z	Supplement Left Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUQ0JZ	Supplement Left Toe Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SUQ0KZ	Supplement Left Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SUQ37Z	Supplement Left Toe Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUQ3JZ	Supplement Left Toe Phalangeal Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUQ3KZ	Supplement Left Toe Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0SUQ47Z	Supplement Left Toe Phalangeal Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUQ4JZ	Supplement Left Toe Phalangeal Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUQ4KZ	Supplement Left Toe Phalangeal Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SUR09Z	Supplement Right Hip Joint, Femoral Surface with Liner, Open Approach	PX	ICD-10-PCS
0SUR0BZ	Supplement Right Hip Joint, Femoral Surface with Resurfacing Device, Open Approach	PX	ICD-10-PCS
0SUS09Z	Supplement Left Hip Joint, Femoral Surface with Liner, Open Approach	PX	ICD-10-PCS
0SUS0BZ	Supplement Left Hip Joint, Femoral Surface with Resurfacing Device, Open Approach	PX	ICD-10-PCS
0SUT09Z	Supplement Right Knee Joint, Femoral Surface with Liner, Open Approach	PX	ICD-10-PCS
0SUU09Z	Supplement Left Knee Joint, Femoral Surface with Liner, Open Approach	PX	ICD-10-PCS
0SUV09Z	Supplement Right Knee Joint, Tibial Surface with Liner, Open Approach	PX	ICD-10-PCS
0SUW09Z	Supplement Left Knee Joint, Tibial Surface with Liner, Open Approach	PX	ICD-10-PCS
0SW000Z	Revision of Drainage Device in Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SW003Z	Revision of Infusion Device in Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SW004Z	Revision of Internal Fixation Device in Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SW007Z	Revision of Autologous Tissue Substitute in Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SW008Z	Revision of Spacer in Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SW00AZ	Revision of Interbody Fusion Device in Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SW00JZ	Revision of Synthetic Substitute in Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SW00KZ	Revision of Nonautologous Tissue Substitute in Lumbar Vertebral Joint, Open Approach	PX	ICD-10-PCS
0SW030Z	Revision of Drainage Device in Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW033Z	Revision of Infusion Device in Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW034Z	Revision of Internal Fixation Device in Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW037Z	Revision of Autologous Tissue Substitute in Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SW038Z	Revision of Spacer in Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW03AZ	Revision of Interbody Fusion Device in Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW03JZ	Revision of Synthetic Substitute in Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW03KZ	Revision of Nonautologous Tissue Substitute in Lumbar Vertebral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW040Z	Revision of Drainage Device in Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW043Z	Revision of Infusion Device in Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW044Z	Revision of Internal Fixation Device in Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW047Z	Revision of Autologous Tissue Substitute in Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW048Z	Revision of Spacer in Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW04AZ	Revision of Interbody Fusion Device in Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW04JZ	Revision of Synthetic Substitute in Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW04KZ	Revision of Nonautologous Tissue Substitute in Lumbar Vertebral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW200Z	Revision of Drainage Device in Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SW203Z	Revision of Infusion Device in Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SW207Z	Revision of Autologous Tissue Substitute in Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SW20JZ	Revision of Synthetic Substitute in Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SW20KZ	Revision of Nonautologous Tissue Substitute in Lumbar Vertebral Disc, Open Approach	PX	ICD-10-PCS
0SW230Z	Revision of Drainage Device in Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SW233Z	Revision of Infusion Device in Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SW237Z	Revision of Autologous Tissue Substitute in Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SW23JZ	Revision of Synthetic Substitute in Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SW23KZ	Revision of Nonautologous Tissue Substitute in Lumbar Vertebral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SW240Z	Revision of Drainage Device in Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW243Z	Revision of Infusion Device in Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW247Z	Revision of Autologous Tissue Substitute in Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SW24JZ	Revision of Synthetic Substitute in Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW24KZ	Revision of Nonautologous Tissue Substitute in Lumbar Vertebral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW300Z	Revision of Drainage Device in Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SW303Z	Revision of Infusion Device in Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SW304Z	Revision of Internal Fixation Device in Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SW307Z	Revision of Autologous Tissue Substitute in Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SW308Z	Revision of Spacer in Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SW30AZ	Revision of Interbody Fusion Device in Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SW30JZ	Revision of Synthetic Substitute in Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SW30KZ	Revision of Nonautologous Tissue Substitute in Lumbosacral Joint, Open Approach	PX	ICD-10-PCS
0SW330Z	Revision of Drainage Device in Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW333Z	Revision of Infusion Device in Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW334Z	Revision of Internal Fixation Device in Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW337Z	Revision of Autologous Tissue Substitute in Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW338Z	Revision of Spacer in Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW33AZ	Revision of Interbody Fusion Device in Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW33JZ	Revision of Synthetic Substitute in Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW33KZ	Revision of Nonautologous Tissue Substitute in Lumbosacral Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW340Z	Revision of Drainage Device in Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW343Z	Revision of Infusion Device in Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW344Z	Revision of Internal Fixation Device in Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW347Z	Revision of Autologous Tissue Substitute in Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW348Z	Revision of Spacer in Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW34AZ	Revision of Interbody Fusion Device in Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW34JZ	Revision of Synthetic Substitute in Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW34KZ	Revision of Nonautologous Tissue Substitute in Lumbosacral Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW400Z	Revision of Drainage Device in Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SW403Z	Revision of Infusion Device in Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SW407Z	Revision of Autologous Tissue Substitute in Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SW40JZ	Revision of Synthetic Substitute in Lumbosacral Disc, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SW40KZ	Revision of Nonautologous Tissue Substitute in Lumbosacral Disc, Open Approach	PX	ICD-10-PCS
0SW430Z	Revision of Drainage Device in Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SW433Z	Revision of Infusion Device in Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SW437Z	Revision of Autologous Tissue Substitute in Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SW43JZ	Revision of Synthetic Substitute in Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SW43KZ	Revision of Nonautologous Tissue Substitute in Lumbosacral Disc, Percutaneous Approach	PX	ICD-10-PCS
0SW440Z	Revision of Drainage Device in Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW443Z	Revision of Infusion Device in Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW447Z	Revision of Autologous Tissue Substitute in Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW44JZ	Revision of Synthetic Substitute in Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW44KZ	Revision of Nonautologous Tissue Substitute in Lumbosacral Disc, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW500Z	Revision of Drainage Device in Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SW503Z	Revision of Infusion Device in Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SW504Z	Revision of Internal Fixation Device in Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SW507Z	Revision of Autologous Tissue Substitute in Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SW508Z	Revision of Spacer in Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SW50JZ	Revision of Synthetic Substitute in Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SW50KZ	Revision of Nonautologous Tissue Substitute in Sacrococcygeal Joint, Open Approach	PX	ICD-10-PCS
0SW530Z	Revision of Drainage Device in Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW533Z	Revision of Infusion Device in Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW534Z	Revision of Internal Fixation Device in Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW537Z	Revision of Autologous Tissue Substitute in Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW538Z	Revision of Spacer in Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW53JZ	Revision of Synthetic Substitute in Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW53KZ	Revision of Nonautologous Tissue Substitute in Sacrococcygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW540Z	Revision of Drainage Device in Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW543Z	Revision of Infusion Device in Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW544Z	Revision of Internal Fixation Device in Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SW547Z	Revision of Autologous Tissue Substitute in Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW548Z	Revision of Spacer in Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW54JZ	Revision of Synthetic Substitute in Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW54KZ	Revision of Nonautologous Tissue Substitute in Sacrococcygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW600Z	Revision of Drainage Device in Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SW603Z	Revision of Infusion Device in Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SW604Z	Revision of Internal Fixation Device in Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SW607Z	Revision of Autologous Tissue Substitute in Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SW608Z	Revision of Spacer in Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SW60JZ	Revision of Synthetic Substitute in Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SW60KZ	Revision of Nonautologous Tissue Substitute in Coccygeal Joint, Open Approach	PX	ICD-10-PCS
0SW630Z	Revision of Drainage Device in Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW633Z	Revision of Infusion Device in Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW634Z	Revision of Internal Fixation Device in Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW637Z	Revision of Autologous Tissue Substitute in Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW638Z	Revision of Spacer in Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW63JZ	Revision of Synthetic Substitute in Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW63KZ	Revision of Nonautologous Tissue Substitute in Coccygeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW640Z	Revision of Drainage Device in Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW643Z	Revision of Infusion Device in Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW644Z	Revision of Internal Fixation Device in Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW647Z	Revision of Autologous Tissue Substitute in Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW648Z	Revision of Spacer in Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW64JZ	Revision of Synthetic Substitute in Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW64KZ	Revision of Nonautologous Tissue Substitute in Coccygeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW700Z	Revision of Drainage Device in Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW703Z	Revision of Infusion Device in Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW704Z	Revision of Internal Fixation Device in Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW707Z	Revision of Autologous Tissue Substitute in Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW708Z	Revision of Spacer in Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW70JZ	Revision of Synthetic Substitute in Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW70KZ	Revision of Nonautologous Tissue Substitute in Right Sacroiliac Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SW730Z	Revision of Drainage Device in Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW733Z	Revision of Infusion Device in Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW734Z	Revision of Internal Fixation Device in Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW737Z	Revision of Autologous Tissue Substitute in Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW738Z	Revision of Spacer in Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW73JZ	Revision of Synthetic Substitute in Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW73KZ	Revision of Nonautologous Tissue Substitute in Right Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW740Z	Revision of Drainage Device in Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW743Z	Revision of Infusion Device in Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW744Z	Revision of Internal Fixation Device in Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW747Z	Revision of Autologous Tissue Substitute in Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW748Z	Revision of Spacer in Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW74JZ	Revision of Synthetic Substitute in Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW74KZ	Revision of Nonautologous Tissue Substitute in Right Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW800Z	Revision of Drainage Device in Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW803Z	Revision of Infusion Device in Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW804Z	Revision of Internal Fixation Device in Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW807Z	Revision of Autologous Tissue Substitute in Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW808Z	Revision of Spacer in Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW80JZ	Revision of Synthetic Substitute in Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW80KZ	Revision of Nonautologous Tissue Substitute in Left Sacroiliac Joint, Open Approach	PX	ICD-10-PCS
0SW830Z	Revision of Drainage Device in Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW833Z	Revision of Infusion Device in Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW834Z	Revision of Internal Fixation Device in Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW837Z	Revision of Autologous Tissue Substitute in Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW838Z	Revision of Spacer in Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW83JZ	Revision of Synthetic Substitute in Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW83KZ	Revision of Nonautologous Tissue Substitute in Left Sacroiliac Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW840Z	Revision of Drainage Device in Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SW843Z	Revision of Infusion Device in Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW844Z	Revision of Internal Fixation Device in Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW847Z	Revision of Autologous Tissue Substitute in Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW848Z	Revision of Spacer in Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW84JZ	Revision of Synthetic Substitute in Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW84KZ	Revision of Nonautologous Tissue Substitute in Left Sacroiliac Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW900Z	Revision of Drainage Device in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW903Z	Revision of Infusion Device in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW904Z	Revision of Internal Fixation Device in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW905Z	Revision of External Fixation Device in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW907Z	Revision of Autologous Tissue Substitute in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW908Z	Revision of Spacer in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW909Z	Revision of Liner in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW90BZ	Revision of Resurfacing Device in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW90JZ	Revision of Synthetic Substitute in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW90KZ	Revision of Nonautologous Tissue Substitute in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW930Z	Revision of Drainage Device in Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW933Z	Revision of Infusion Device in Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW934Z	Revision of Internal Fixation Device in Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW935Z	Revision of External Fixation Device in Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW937Z	Revision of Autologous Tissue Substitute in Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW938Z	Revision of Spacer in Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW93JZ	Revision of Synthetic Substitute in Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW93KZ	Revision of Nonautologous Tissue Substitute in Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW940Z	Revision of Drainage Device in Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW943Z	Revision of Infusion Device in Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW944Z	Revision of Internal Fixation Device in Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW945Z	Revision of External Fixation Device in Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW947Z	Revision of Autologous Tissue Substitute in Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW948Z	Revision of Spacer in Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SW94JZ	Revision of Synthetic Substitute in Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SW94KZ	Revision of Nonautologous Tissue Substitute in Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWA0JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Open Approach	PX	ICD-10-PCS
0SWA3JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWA4JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWB00Z	Revision of Drainage Device in Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SWB03Z	Revision of Infusion Device in Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SWB04Z	Revision of Internal Fixation Device in Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SWB05Z	Revision of External Fixation Device in Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SWB07Z	Revision of Autologous Tissue Substitute in Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SWB08Z	Revision of Spacer in Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SWB09Z	Revision of Liner in Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SWB0BZ	Revision of Resurfacing Device in Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SWB0JZ	Revision of Synthetic Substitute in Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SWB0KZ	Revision of Nonautologous Tissue Substitute in Left Hip Joint, Open Approach	PX	ICD-10-PCS
0SWB30Z	Revision of Drainage Device in Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWB33Z	Revision of Infusion Device in Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWB34Z	Revision of Internal Fixation Device in Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWB35Z	Revision of External Fixation Device in Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWB37Z	Revision of Autologous Tissue Substitute in Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWB38Z	Revision of Spacer in Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWB3JZ	Revision of Synthetic Substitute in Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWB3KZ	Revision of Nonautologous Tissue Substitute in Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWB40Z	Revision of Drainage Device in Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWB43Z	Revision of Infusion Device in Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWB44Z	Revision of Internal Fixation Device in Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWB45Z	Revision of External Fixation Device in Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWB47Z	Revision of Autologous Tissue Substitute in Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWB48Z	Revision of Spacer in Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWB4JZ	Revision of Synthetic Substitute in Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWB4KZ	Revision of Nonautologous Tissue Substitute in Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC00Z	Revision of Drainage Device in Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SWC03Z	Revision of Infusion Device in Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SWC04Z	Revision of Internal Fixation Device in Right Knee Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWC05Z	Revision of External Fixation Device in Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SWC07Z	Revision of Autologous Tissue Substitute in Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SWC08Z	Revision of Spacer in Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SWC09Z	Revision of Liner in Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SWC0JC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Open Approach	PX	ICD-10-PCS
0SWC0JZ	Revision of Synthetic Substitute in Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SWC0KZ	Revision of Nonautologous Tissue Substitute in Right Knee Joint, Open Approach	PX	ICD-10-PCS
0SWC30Z	Revision of Drainage Device in Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWC33Z	Revision of Infusion Device in Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWC34Z	Revision of Internal Fixation Device in Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWC35Z	Revision of External Fixation Device in Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWC37Z	Revision of Autologous Tissue Substitute in Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWC38Z	Revision of Spacer in Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWC3JC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWC3JZ	Revision of Synthetic Substitute in Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWC3KZ	Revision of Nonautologous Tissue Substitute in Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWC40Z	Revision of Drainage Device in Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC43Z	Revision of Infusion Device in Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC44Z	Revision of Internal Fixation Device in Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC45Z	Revision of External Fixation Device in Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC47Z	Revision of Autologous Tissue Substitute in Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC48Z	Revision of Spacer in Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC4JC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC4JZ	Revision of Synthetic Substitute in Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC4KZ	Revision of Nonautologous Tissue Substitute in Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD00Z	Revision of Drainage Device in Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SWD03Z	Revision of Infusion Device in Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SWD04Z	Revision of Internal Fixation Device in Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SWD05Z	Revision of External Fixation Device in Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SWD07Z	Revision of Autologous Tissue Substitute in Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SWD08Z	Revision of Spacer in Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SWD09Z	Revision of Liner in Left Knee Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWD0JC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Open Approach	PX	ICD-10-PCS
0SWD0JZ	Revision of Synthetic Substitute in Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SWD0KZ	Revision of Nonautologous Tissue Substitute in Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SWD30Z	Revision of Drainage Device in Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWD33Z	Revision of Infusion Device in Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWD34Z	Revision of Internal Fixation Device in Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWD35Z	Revision of External Fixation Device in Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWD37Z	Revision of Autologous Tissue Substitute in Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWD38Z	Revision of Spacer in Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWD3JC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWD3JZ	Revision of Synthetic Substitute in Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWD3KZ	Revision of Nonautologous Tissue Substitute in Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWD40Z	Revision of Drainage Device in Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD43Z	Revision of Infusion Device in Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD44Z	Revision of Internal Fixation Device in Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD45Z	Revision of External Fixation Device in Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD47Z	Revision of Autologous Tissue Substitute in Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD48Z	Revision of Spacer in Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD4JC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD4JZ	Revision of Synthetic Substitute in Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD4KZ	Revision of Nonautologous Tissue Substitute in Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWE0JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Open Approach	PX	ICD-10-PCS
0SWE3JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWE4JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWF00Z	Revision of Drainage Device in Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWF03Z	Revision of Infusion Device in Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWF04Z	Revision of Internal Fixation Device in Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWF05Z	Revision of External Fixation Device in Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWF07Z	Revision of Autologous Tissue Substitute in Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWF08Z	Revision of Spacer in Right Ankle Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWF0JZ	Revision of Synthetic Substitute in Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWF0KZ	Revision of Nonautologous Tissue Substitute in Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWF30Z	Revision of Drainage Device in Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWF33Z	Revision of Infusion Device in Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWF34Z	Revision of Internal Fixation Device in Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWF35Z	Revision of External Fixation Device in Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWF37Z	Revision of Autologous Tissue Substitute in Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWF38Z	Revision of Spacer in Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWF3JZ	Revision of Synthetic Substitute in Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWF3KZ	Revision of Nonautologous Tissue Substitute in Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWF40Z	Revision of Drainage Device in Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWF43Z	Revision of Infusion Device in Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWF44Z	Revision of Internal Fixation Device in Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWF45Z	Revision of External Fixation Device in Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWF47Z	Revision of Autologous Tissue Substitute in Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWF48Z	Revision of Spacer in Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWF4JZ	Revision of Synthetic Substitute in Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWF4KZ	Revision of Nonautologous Tissue Substitute in Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWG00Z	Revision of Drainage Device in Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWG03Z	Revision of Infusion Device in Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWG04Z	Revision of Internal Fixation Device in Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWG05Z	Revision of External Fixation Device in Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWG07Z	Revision of Autologous Tissue Substitute in Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWG08Z	Revision of Spacer in Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWG0JZ	Revision of Synthetic Substitute in Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWG0KZ	Revision of Nonautologous Tissue Substitute in Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWG30Z	Revision of Drainage Device in Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWG33Z	Revision of Infusion Device in Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWG34Z	Revision of Internal Fixation Device in Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWG35Z	Revision of External Fixation Device in Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWG37Z	Revision of Autologous Tissue Substitute in Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWG38Z	Revision of Spacer in Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWG3JZ	Revision of Synthetic Substitute in Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWG3KZ	Revision of Nonautologous Tissue Substitute in Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWG40Z	Revision of Drainage Device in Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWG43Z	Revision of Infusion Device in Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWG44Z	Revision of Internal Fixation Device in Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWG45Z	Revision of External Fixation Device in Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWG47Z	Revision of Autologous Tissue Substitute in Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWG48Z	Revision of Spacer in Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWG4JZ	Revision of Synthetic Substitute in Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWG4KZ	Revision of Nonautologous Tissue Substitute in Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWH00Z	Revision of Drainage Device in Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWH03Z	Revision of Infusion Device in Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWH04Z	Revision of Internal Fixation Device in Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWH05Z	Revision of External Fixation Device in Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWH07Z	Revision of Autologous Tissue Substitute in Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWH08Z	Revision of Spacer in Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWH0JZ	Revision of Synthetic Substitute in Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWH0KZ	Revision of Nonautologous Tissue Substitute in Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWH30Z	Revision of Drainage Device in Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWH33Z	Revision of Infusion Device in Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWH34Z	Revision of Internal Fixation Device in Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWH35Z	Revision of External Fixation Device in Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWH37Z	Revision of Autologous Tissue Substitute in Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWH38Z	Revision of Spacer in Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWH3JZ	Revision of Synthetic Substitute in Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWH3KZ	Revision of Nonautologous Tissue Substitute in Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWH40Z	Revision of Drainage Device in Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWH43Z	Revision of Infusion Device in Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWH44Z	Revision of Internal Fixation Device in Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWH45Z	Revision of External Fixation Device in Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWH47Z	Revision of Autologous Tissue Substitute in Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWH48Z	Revision of Spacer in Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWH4JZ	Revision of Synthetic Substitute in Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWH4KZ	Revision of Nonautologous Tissue Substitute in Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWJ00Z	Revision of Drainage Device in Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWJ03Z	Revision of Infusion Device in Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWJ04Z	Revision of Internal Fixation Device in Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWJ05Z	Revision of External Fixation Device in Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWJ07Z	Revision of Autologous Tissue Substitute in Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWJ08Z	Revision of Spacer in Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWJ0JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWJ0KZ	Revision of Nonautologous Tissue Substitute in Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWJ30Z	Revision of Drainage Device in Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWJ33Z	Revision of Infusion Device in Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWJ34Z	Revision of Internal Fixation Device in Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWJ35Z	Revision of External Fixation Device in Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWJ37Z	Revision of Autologous Tissue Substitute in Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWJ38Z	Revision of Spacer in Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWJ3JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWJ3KZ	Revision of Nonautologous Tissue Substitute in Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWJ40Z	Revision of Drainage Device in Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWJ43Z	Revision of Infusion Device in Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWJ44Z	Revision of Internal Fixation Device in Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWJ45Z	Revision of External Fixation Device in Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWJ47Z	Revision of Autologous Tissue Substitute in Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWJ48Z	Revision of Spacer in Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWJ4JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWJ4KZ	Revision of Nonautologous Tissue Substitute in Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWK00Z	Revision of Drainage Device in Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWK03Z	Revision of Infusion Device in Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWK04Z	Revision of Internal Fixation Device in Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWK05Z	Revision of External Fixation Device in Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWK07Z	Revision of Autologous Tissue Substitute in Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWK08Z	Revision of Spacer in Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWK0JZ	Revision of Synthetic Substitute in Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWK0KZ	Revision of Nonautologous Tissue Substitute in Right Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWK30Z	Revision of Drainage Device in Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWK33Z	Revision of Infusion Device in Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWK34Z	Revision of Internal Fixation Device in Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWK35Z	Revision of External Fixation Device in Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWK37Z	Revision of Autologous Tissue Substitute in Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWK38Z	Revision of Spacer in Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWK3JZ	Revision of Synthetic Substitute in Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWK3KZ	Revision of Nonautologous Tissue Substitute in Right Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWK40Z	Revision of Drainage Device in Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWK43Z	Revision of Infusion Device in Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWK44Z	Revision of Internal Fixation Device in Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWK45Z	Revision of External Fixation Device in Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWK47Z	Revision of Autologous Tissue Substitute in Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWK48Z	Revision of Spacer in Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWK4JZ	Revision of Synthetic Substitute in Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWK4KZ	Revision of Nonautologous Tissue Substitute in Right Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWL00Z	Revision of Drainage Device in Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWL03Z	Revision of Infusion Device in Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWL04Z	Revision of Internal Fixation Device in Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWL05Z	Revision of External Fixation Device in Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWL07Z	Revision of Autologous Tissue Substitute in Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWL08Z	Revision of Spacer in Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWL0JZ	Revision of Synthetic Substitute in Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWL0KZ	Revision of Nonautologous Tissue Substitute in Left Tarsometatarsal Joint, Open Approach	PX	ICD-10-PCS
0SWL30Z	Revision of Drainage Device in Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWL33Z	Revision of Infusion Device in Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWL34Z	Revision of Internal Fixation Device in Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWL35Z	Revision of External Fixation Device in Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWL37Z	Revision of Autologous Tissue Substitute in Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWL38Z	Revision of Spacer in Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWL3JZ	Revision of Synthetic Substitute in Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWL3KZ	Revision of Nonautologous Tissue Substitute in Left Tarsometatarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWL40Z	Revision of Drainage Device in Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWL43Z	Revision of Infusion Device in Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWL44Z	Revision of Internal Fixation Device in Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWL45Z	Revision of External Fixation Device in Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWL47Z	Revision of Autologous Tissue Substitute in Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWL48Z	Revision of Spacer in Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWL4JZ	Revision of Synthetic Substitute in Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWL4KZ	Revision of Nonautologous Tissue Substitute in Left Tarsometatarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWM00Z	Revision of Drainage Device in Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWM03Z	Revision of Infusion Device in Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWM04Z	Revision of Internal Fixation Device in Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWM05Z	Revision of External Fixation Device in Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWM07Z	Revision of Autologous Tissue Substitute in Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWM08Z	Revision of Spacer in Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWM0JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWM0KZ	Revision of Nonautologous Tissue Substitute in Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWM30Z	Revision of Drainage Device in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWM33Z	Revision of Infusion Device in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWM34Z	Revision of Internal Fixation Device in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWM35Z	Revision of External Fixation Device in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWM37Z	Revision of Autologous Tissue Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWM38Z	Revision of Spacer in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWM3JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWM3KZ	Revision of Nonautologous Tissue Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWM40Z	Revision of Drainage Device in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWM43Z	Revision of Infusion Device in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWM44Z	Revision of Internal Fixation Device in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWM45Z	Revision of External Fixation Device in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWM47Z	Revision of Autologous Tissue Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWM48Z	Revision of Spacer in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWM4JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWM4KZ	Revision of Nonautologous Tissue Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWN00Z	Revision of Drainage Device in Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWN03Z	Revision of Infusion Device in Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWN04Z	Revision of Internal Fixation Device in Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWN05Z	Revision of External Fixation Device in Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWN07Z	Revision of Autologous Tissue Substitute in Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWN08Z	Revision of Spacer in Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWN0JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWN0KZ	Revision of Nonautologous Tissue Substitute in Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWN30Z	Revision of Drainage Device in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWN33Z	Revision of Infusion Device in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWN34Z	Revision of Internal Fixation Device in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWN35Z	Revision of External Fixation Device in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWN37Z	Revision of Autologous Tissue Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWN38Z	Revision of Spacer in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWN3JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWN3KZ	Revision of Nonautologous Tissue Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWN40Z	Revision of Drainage Device in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWN43Z	Revision of Infusion Device in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWN44Z	Revision of Internal Fixation Device in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWN45Z	Revision of External Fixation Device in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWN47Z	Revision of Autologous Tissue Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWN48Z	Revision of Spacer in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWN4JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWN4KZ	Revision of Nonautologous Tissue Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWP00Z	Revision of Drainage Device in Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWP03Z	Revision of Infusion Device in Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWP04Z	Revision of Internal Fixation Device in Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWP05Z	Revision of External Fixation Device in Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWP07Z	Revision of Autologous Tissue Substitute in Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWP08Z	Revision of Spacer in Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWP0JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWP0KZ	Revision of Nonautologous Tissue Substitute in Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWP30Z	Revision of Drainage Device in Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWP33Z	Revision of Infusion Device in Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWP34Z	Revision of Internal Fixation Device in Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWP35Z	Revision of External Fixation Device in Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWP37Z	Revision of Autologous Tissue Substitute in Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWP38Z	Revision of Spacer in Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWP3JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWP3KZ	Revision of Nonautologous Tissue Substitute in Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWP40Z	Revision of Drainage Device in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWP43Z	Revision of Infusion Device in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWP44Z	Revision of Internal Fixation Device in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWP45Z	Revision of External Fixation Device in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWP47Z	Revision of Autologous Tissue Substitute in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWP48Z	Revision of Spacer in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWP4JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWP4KZ	Revision of Nonautologous Tissue Substitute in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWQ00Z	Revision of Drainage Device in Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWQ03Z	Revision of Infusion Device in Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWQ04Z	Revision of Internal Fixation Device in Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWQ05Z	Revision of External Fixation Device in Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWQ07Z	Revision of Autologous Tissue Substitute in Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWQ08Z	Revision of Spacer in Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWQ0JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWQ0KZ	Revision of Nonautologous Tissue Substitute in Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWQ30Z	Revision of Drainage Device in Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWQ33Z	Revision of Infusion Device in Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWQ34Z	Revision of Internal Fixation Device in Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWQ35Z	Revision of External Fixation Device in Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWQ37Z	Revision of Autologous Tissue Substitute in Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWQ38Z	Revision of Spacer in Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWQ3JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWQ3KZ	Revision of Nonautologous Tissue Substitute in Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWQ40Z	Revision of Drainage Device in Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWQ43Z	Revision of Infusion Device in Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWQ44Z	Revision of Internal Fixation Device in Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWQ45Z	Revision of External Fixation Device in Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWQ47Z	Revision of Autologous Tissue Substitute in Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWQ48Z	Revision of Spacer in Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWQ4JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWQ4KZ	Revision of Nonautologous Tissue Substitute in Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWR0JZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS
0SWR3JZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWR4JZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWS0JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0SWS3JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWS4JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWT0JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS
0SWT3JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWT4JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWU0JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS
0SWU3JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWU4JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWV0JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Open Approach	PX	ICD-10-PCS
0SWV3JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWV4JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWW0JZ	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Open Approach	PX	ICD-10-PCS
0SWW3JZ	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWW4JZ	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T13073	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T13074	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T13076	Bypass Right Kidney Pelvis to Right Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T13077	Bypass Right Kidney Pelvis to Left Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T13078	Bypass Right Kidney Pelvis to Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T13079	Bypass Right Kidney Pelvis to Colocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1307A	Bypass Right Kidney Pelvis to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1307B	Bypass Right Kidney Pelvis to Bladder with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T1307C	Bypass Right Kidney Pelvis to Ileocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1307D	Bypass Right Kidney Pelvis to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130J3	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T130J4	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T130J6	Bypass Right Kidney Pelvis to Right Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T130J7	Bypass Right Kidney Pelvis to Left Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T130J8	Bypass Right Kidney Pelvis to Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T130J9	Bypass Right Kidney Pelvis to Colocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T130JA	Bypass Right Kidney Pelvis to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T130JB	Bypass Right Kidney Pelvis to Bladder with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T130JC	Bypass Right Kidney Pelvis to Ileocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T130JD	Bypass Right Kidney Pelvis to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T130K3	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130K4	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130K6	Bypass Right Kidney Pelvis to Right Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130K7	Bypass Right Kidney Pelvis to Left Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130K8	Bypass Right Kidney Pelvis to Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130K9	Bypass Right Kidney Pelvis to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130KA	Bypass Right Kidney Pelvis to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130KB	Bypass Right Kidney Pelvis to Bladder with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130KC	Bypass Right Kidney Pelvis to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130KD	Bypass Right Kidney Pelvis to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T130Z3	Bypass Right Kidney Pelvis to Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0T130Z4	Bypass Right Kidney Pelvis to Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0T130Z6	Bypass Right Kidney Pelvis to Right Ureter, Open Approach	PX	ICD-10-PCS
0T130Z7	Bypass Right Kidney Pelvis to Left Ureter, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T130Z8	Bypass Right Kidney Pelvis to Colon, Open Approach	PX	ICD-10-PCS
0T130Z9	Bypass Right Kidney Pelvis to Colocutaneous, Open Approach	PX	ICD-10-PCS
0T130ZA	Bypass Right Kidney Pelvis to Ileum, Open Approach	PX	ICD-10-PCS
0T130ZB	Bypass Right Kidney Pelvis to Bladder, Open Approach	PX	ICD-10-PCS
0T130ZC	Bypass Right Kidney Pelvis to Ileocutaneous, Open Approach	PX	ICD-10-PCS
0T130ZD	Bypass Right Kidney Pelvis to Cutaneous, Open Approach	PX	ICD-10-PCS
0T133JD	Bypass Right Kidney Pelvis to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0T13473	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T13474	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T13476	Bypass Right Kidney Pelvis to Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T13477	Bypass Right Kidney Pelvis to Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T13478	Bypass Right Kidney Pelvis to Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T13479	Bypass Right Kidney Pelvis to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1347A	Bypass Right Kidney Pelvis to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1347B	Bypass Right Kidney Pelvis to Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1347C	Bypass Right Kidney Pelvis to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1347D	Bypass Right Kidney Pelvis to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134J3	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134J4	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134J6	Bypass Right Kidney Pelvis to Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134J7	Bypass Right Kidney Pelvis to Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134J8	Bypass Right Kidney Pelvis to Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134J9	Bypass Right Kidney Pelvis to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134JA	Bypass Right Kidney Pelvis to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134JB	Bypass Right Kidney Pelvis to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T134JC	Bypass Right Kidney Pelvis to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134JD	Bypass Right Kidney Pelvis to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134K3	Bypass Right Kidney Pelvis to Right Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134K4	Bypass Right Kidney Pelvis to Left Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134K6	Bypass Right Kidney Pelvis to Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134K7	Bypass Right Kidney Pelvis to Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134K8	Bypass Right Kidney Pelvis to Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134K9	Bypass Right Kidney Pelvis to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134KA	Bypass Right Kidney Pelvis to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134KB	Bypass Right Kidney Pelvis to Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134KC	Bypass Right Kidney Pelvis to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134KD	Bypass Right Kidney Pelvis to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134Z3	Bypass Right Kidney Pelvis to Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134Z4	Bypass Right Kidney Pelvis to Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134Z6	Bypass Right Kidney Pelvis to Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134Z7	Bypass Right Kidney Pelvis to Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134Z8	Bypass Right Kidney Pelvis to Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134Z9	Bypass Right Kidney Pelvis to Colocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134ZA	Bypass Right Kidney Pelvis to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134ZB	Bypass Right Kidney Pelvis to Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134ZC	Bypass Right Kidney Pelvis to Ileocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T134ZD	Bypass Right Kidney Pelvis to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T14073	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T14074	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T14076	Bypass Left Kidney Pelvis to Right Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T14077	Bypass Left Kidney Pelvis to Left Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T14078	Bypass Left Kidney Pelvis to Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T14079	Bypass Left Kidney Pelvis to Colocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1407A	Bypass Left Kidney Pelvis to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1407B	Bypass Left Kidney Pelvis to Bladder with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1407C	Bypass Left Kidney Pelvis to Ileocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1407D	Bypass Left Kidney Pelvis to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T140J3	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T140J4	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T140J6	Bypass Left Kidney Pelvis to Right Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T140J7	Bypass Left Kidney Pelvis to Left Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T140J8	Bypass Left Kidney Pelvis to Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T140J9	Bypass Left Kidney Pelvis to Colocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T140JA	Bypass Left Kidney Pelvis to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T140JB	Bypass Left Kidney Pelvis to Bladder with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T140JC	Bypass Left Kidney Pelvis to Ileocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T140JD	Bypass Left Kidney Pelvis to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T140K3	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T140K4	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T140K6	Bypass Left Kidney Pelvis to Right Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T140K7	Bypass Left Kidney Pelvis to Left Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T140K8	Bypass Left Kidney Pelvis to Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T140K9	Bypass Left Kidney Pelvis to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T140KA	Bypass Left Kidney Pelvis to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T140KB	Bypass Left Kidney Pelvis to Bladder with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T140KC	Bypass Left Kidney Pelvis to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T140KD	Bypass Left Kidney Pelvis to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T140Z3	Bypass Left Kidney Pelvis to Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0T140Z4	Bypass Left Kidney Pelvis to Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0T140Z6	Bypass Left Kidney Pelvis to Right Ureter, Open Approach	PX	ICD-10-PCS
0T140Z7	Bypass Left Kidney Pelvis to Left Ureter, Open Approach	PX	ICD-10-PCS
0T140Z8	Bypass Left Kidney Pelvis to Colon, Open Approach	PX	ICD-10-PCS
0T140Z9	Bypass Left Kidney Pelvis to Colocutaneous, Open Approach	PX	ICD-10-PCS
0T140ZA	Bypass Left Kidney Pelvis to Ileum, Open Approach	PX	ICD-10-PCS
0T140ZB	Bypass Left Kidney Pelvis to Bladder, Open Approach	PX	ICD-10-PCS
0T140ZC	Bypass Left Kidney Pelvis to Ileocutaneous, Open Approach	PX	ICD-10-PCS
0T140ZD	Bypass Left Kidney Pelvis to Cutaneous, Open Approach	PX	ICD-10-PCS
0T143JD	Bypass Left Kidney Pelvis to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0T14473	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T14474	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T14476	Bypass Left Kidney Pelvis to Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T14477	Bypass Left Kidney Pelvis to Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T14478	Bypass Left Kidney Pelvis to Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T14479	Bypass Left Kidney Pelvis to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1447A	Bypass Left Kidney Pelvis to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1447B	Bypass Left Kidney Pelvis to Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1447C	Bypass Left Kidney Pelvis to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1447D	Bypass Left Kidney Pelvis to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144J3	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144J4	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144J6	Bypass Left Kidney Pelvis to Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T144J7	Bypass Left Kidney Pelvis to Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144J8	Bypass Left Kidney Pelvis to Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144J9	Bypass Left Kidney Pelvis to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144JA	Bypass Left Kidney Pelvis to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144JB	Bypass Left Kidney Pelvis to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144JC	Bypass Left Kidney Pelvis to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144JD	Bypass Left Kidney Pelvis to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144K3	Bypass Left Kidney Pelvis to Right Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144K4	Bypass Left Kidney Pelvis to Left Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144K6	Bypass Left Kidney Pelvis to Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144K7	Bypass Left Kidney Pelvis to Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144K8	Bypass Left Kidney Pelvis to Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144K9	Bypass Left Kidney Pelvis to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144KA	Bypass Left Kidney Pelvis to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144KB	Bypass Left Kidney Pelvis to Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144KC	Bypass Left Kidney Pelvis to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144KD	Bypass Left Kidney Pelvis to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144Z3	Bypass Left Kidney Pelvis to Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144Z4	Bypass Left Kidney Pelvis to Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144Z6	Bypass Left Kidney Pelvis to Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144Z7	Bypass Left Kidney Pelvis to Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144Z8	Bypass Left Kidney Pelvis to Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144Z9	Bypass Left Kidney Pelvis to Colocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144ZA	Bypass Left Kidney Pelvis to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144ZB	Bypass Left Kidney Pelvis to Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T144ZC	Bypass Left Kidney Pelvis to Ileocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T144ZD	Bypass Left Kidney Pelvis to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T16076	Bypass Right Ureter to Right Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T16077	Bypass Right Ureter to Left Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T16078	Bypass Right Ureter to Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T16079	Bypass Right Ureter to Colocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1607A	Bypass Right Ureter to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1607B	Bypass Right Ureter to Bladder with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1607C	Bypass Right Ureter to Ileocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1607D	Bypass Right Ureter to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T160J6	Bypass Right Ureter to Right Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T160J7	Bypass Right Ureter to Left Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T160J8	Bypass Right Ureter to Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T160J9	Bypass Right Ureter to Colocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T160JA	Bypass Right Ureter to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T160JB	Bypass Right Ureter to Bladder with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T160JC	Bypass Right Ureter to Ileocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T160JD	Bypass Right Ureter to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T160K6	Bypass Right Ureter to Right Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T160K7	Bypass Right Ureter to Left Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T160K8	Bypass Right Ureter to Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T160K9	Bypass Right Ureter to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T160KA	Bypass Right Ureter to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T160KB	Bypass Right Ureter to Bladder with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T160KC	Bypass Right Ureter to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T160KD	Bypass Right Ureter to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T160Z6	Bypass Right Ureter to Right Ureter, Open Approach	PX	ICD-10-PCS
0T160Z7	Bypass Right Ureter to Left Ureter, Open Approach	PX	ICD-10-PCS
0T160Z8	Bypass Right Ureter to Colon, Open Approach	PX	ICD-10-PCS
0T160Z9	Bypass Right Ureter to Colocutaneous, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T160ZA	Bypass Right Ureter to Ileum, Open Approach	PX	ICD-10-PCS
0T160ZB	Bypass Right Ureter to Bladder, Open Approach	PX	ICD-10-PCS
0T160ZC	Bypass Right Ureter to Ileocutaneous, Open Approach	PX	ICD-10-PCS
0T160ZD	Bypass Right Ureter to Cutaneous, Open Approach	PX	ICD-10-PCS
0T163JD	Bypass Right Ureter to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0T16476	Bypass Right Ureter to Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T16477	Bypass Right Ureter to Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T16478	Bypass Right Ureter to Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T16479	Bypass Right Ureter to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1647A	Bypass Right Ureter to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1647B	Bypass Right Ureter to Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1647C	Bypass Right Ureter to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1647D	Bypass Right Ureter to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164J6	Bypass Right Ureter to Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164J7	Bypass Right Ureter to Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164J8	Bypass Right Ureter to Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164J9	Bypass Right Ureter to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164JA	Bypass Right Ureter to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164JB	Bypass Right Ureter to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164JC	Bypass Right Ureter to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164JD	Bypass Right Ureter to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164K6	Bypass Right Ureter to Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164K7	Bypass Right Ureter to Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164K8	Bypass Right Ureter to Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T164K9	Bypass Right Ureter to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164KA	Bypass Right Ureter to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164KB	Bypass Right Ureter to Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164KC	Bypass Right Ureter to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164KD	Bypass Right Ureter to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164Z6	Bypass Right Ureter to Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164Z7	Bypass Right Ureter to Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164Z8	Bypass Right Ureter to Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164Z9	Bypass Right Ureter to Colocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164ZA	Bypass Right Ureter to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164ZB	Bypass Right Ureter to Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164ZC	Bypass Right Ureter to Ileocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T164ZD	Bypass Right Ureter to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T17076	Bypass Left Ureter to Right Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T17077	Bypass Left Ureter to Left Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T17078	Bypass Left Ureter to Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T17079	Bypass Left Ureter to Colocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1707A	Bypass Left Ureter to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1707B	Bypass Left Ureter to Bladder with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1707C	Bypass Left Ureter to Ileocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1707D	Bypass Left Ureter to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T170J6	Bypass Left Ureter to Right Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T170J7	Bypass Left Ureter to Left Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T170J8	Bypass Left Ureter to Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T170J9	Bypass Left Ureter to Colocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T170JA	Bypass Left Ureter to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T170JB	Bypass Left Ureter to Bladder with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T170JC	Bypass Left Ureter to Ileocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T170JD	Bypass Left Ureter to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T170K6	Bypass Left Ureter to Right Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T170K7	Bypass Left Ureter to Left Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T170K8	Bypass Left Ureter to Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T170K9	Bypass Left Ureter to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T170KA	Bypass Left Ureter to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T170KB	Bypass Left Ureter to Bladder with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T170KC	Bypass Left Ureter to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T170KD	Bypass Left Ureter to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T170Z6	Bypass Left Ureter to Right Ureter, Open Approach	PX	ICD-10-PCS
0T170Z7	Bypass Left Ureter to Left Ureter, Open Approach	PX	ICD-10-PCS
0T170Z8	Bypass Left Ureter to Colon, Open Approach	PX	ICD-10-PCS
0T170Z9	Bypass Left Ureter to Colocutaneous, Open Approach	PX	ICD-10-PCS
0T170ZA	Bypass Left Ureter to Ileum, Open Approach	PX	ICD-10-PCS
0T170ZB	Bypass Left Ureter to Bladder, Open Approach	PX	ICD-10-PCS
0T170ZC	Bypass Left Ureter to Ileocutaneous, Open Approach	PX	ICD-10-PCS
0T170ZD	Bypass Left Ureter to Cutaneous, Open Approach	PX	ICD-10-PCS
0T173JD	Bypass Left Ureter to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0T17476	Bypass Left Ureter to Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T17477	Bypass Left Ureter to Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T17478	Bypass Left Ureter to Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T17479	Bypass Left Ureter to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1747A	Bypass Left Ureter to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1747B	Bypass Left Ureter to Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1747C	Bypass Left Ureter to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1747D	Bypass Left Ureter to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174J6	Bypass Left Ureter to Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174J7	Bypass Left Ureter to Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174J8	Bypass Left Ureter to Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T174J9	Bypass Left Ureter to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174JA	Bypass Left Ureter to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174JB	Bypass Left Ureter to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174JC	Bypass Left Ureter to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174JD	Bypass Left Ureter to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174K6	Bypass Left Ureter to Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174K7	Bypass Left Ureter to Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174K8	Bypass Left Ureter to Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174K9	Bypass Left Ureter to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174KA	Bypass Left Ureter to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174KB	Bypass Left Ureter to Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174KC	Bypass Left Ureter to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174KD	Bypass Left Ureter to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174Z6	Bypass Left Ureter to Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174Z7	Bypass Left Ureter to Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174Z8	Bypass Left Ureter to Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174Z9	Bypass Left Ureter to Colocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174ZA	Bypass Left Ureter to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174ZB	Bypass Left Ureter to Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174ZC	Bypass Left Ureter to Ileocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T174ZD	Bypass Left Ureter to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T18076	Bypass Bilateral Ureters to Right Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T18077	Bypass Bilateral Ureters to Left Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T18078	Bypass Bilateral Ureters to Colon with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T18079	Bypass Bilateral Ureters to Colocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1807A	Bypass Bilateral Ureters to Ileum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T1807B	Bypass Bilateral Ureters to Bladder with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1807C	Bypass Bilateral Ureters to Ileocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1807D	Bypass Bilateral Ureters to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T180J6	Bypass Bilateral Ureters to Right Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T180J7	Bypass Bilateral Ureters to Left Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T180J8	Bypass Bilateral Ureters to Colon with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T180J9	Bypass Bilateral Ureters to Colocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T180JA	Bypass Bilateral Ureters to Ileum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T180JB	Bypass Bilateral Ureters to Bladder with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T180JC	Bypass Bilateral Ureters to Ileocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T180JD	Bypass Bilateral Ureters to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T180K6	Bypass Bilateral Ureters to Right Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T180K7	Bypass Bilateral Ureters to Left Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T180K8	Bypass Bilateral Ureters to Colon with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T180K9	Bypass Bilateral Ureters to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T180KA	Bypass Bilateral Ureters to Ileum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T180KB	Bypass Bilateral Ureters to Bladder with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T180KC	Bypass Bilateral Ureters to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T180KD	Bypass Bilateral Ureters to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T180Z6	Bypass Bilateral Ureters to Right Ureter, Open Approach	PX	ICD-10-PCS
0T180Z7	Bypass Bilateral Ureters to Left Ureter, Open Approach	PX	ICD-10-PCS
0T180Z8	Bypass Bilateral Ureters to Colon, Open Approach	PX	ICD-10-PCS
0T180Z9	Bypass Bilateral Ureters to Colocutaneous, Open Approach	PX	ICD-10-PCS
0T180ZA	Bypass Bilateral Ureters to Ileum, Open Approach	PX	ICD-10-PCS
0T180ZB	Bypass Bilateral Ureters to Bladder, Open Approach	PX	ICD-10-PCS
0T180ZC	Bypass Bilateral Ureters to Ileocutaneous, Open Approach	PX	ICD-10-PCS
0T180ZD	Bypass Bilateral Ureters to Cutaneous, Open Approach	PX	ICD-10-PCS
0T183JD	Bypass Bilateral Ureters to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T18476	Bypass Bilateral Ureters to Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T18477	Bypass Bilateral Ureters to Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T18478	Bypass Bilateral Ureters to Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T18479	Bypass Bilateral Ureters to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1847A	Bypass Bilateral Ureters to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1847B	Bypass Bilateral Ureters to Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1847C	Bypass Bilateral Ureters to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1847D	Bypass Bilateral Ureters to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184J6	Bypass Bilateral Ureters to Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184J7	Bypass Bilateral Ureters to Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184J8	Bypass Bilateral Ureters to Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184J9	Bypass Bilateral Ureters to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184JA	Bypass Bilateral Ureters to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184JB	Bypass Bilateral Ureters to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184JC	Bypass Bilateral Ureters to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184JD	Bypass Bilateral Ureters to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184K6	Bypass Bilateral Ureters to Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184K7	Bypass Bilateral Ureters to Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184K8	Bypass Bilateral Ureters to Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184K9	Bypass Bilateral Ureters to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184KA	Bypass Bilateral Ureters to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184KB	Bypass Bilateral Ureters to Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T184KC	Bypass Bilateral Ureters to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184KD	Bypass Bilateral Ureters to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184Z6	Bypass Bilateral Ureters to Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184Z7	Bypass Bilateral Ureters to Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184Z8	Bypass Bilateral Ureters to Colon, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184Z9	Bypass Bilateral Ureters to Colocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184ZA	Bypass Bilateral Ureters to Ileum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184ZB	Bypass Bilateral Ureters to Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184ZC	Bypass Bilateral Ureters to Ileocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T184ZD	Bypass Bilateral Ureters to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B079	Bypass Bladder to Colocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1B07C	Bypass Bladder to Ileocutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1B07D	Bypass Bladder to Cutaneous with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1B0J9	Bypass Bladder to Colocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T1B0JC	Bypass Bladder to Ileocutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T1B0JD	Bypass Bladder to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0T1B0K9	Bypass Bladder to Colocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1B0KC	Bypass Bladder to Ileocutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1B0KD	Bypass Bladder to Cutaneous with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0T1B0Z9	Bypass Bladder to Colocutaneous, Open Approach	PX	ICD-10-PCS
0T1B0ZC	Bypass Bladder to Ileocutaneous, Open Approach	PX	ICD-10-PCS
0T1B0ZD	Bypass Bladder to Cutaneous, Open Approach	PX	ICD-10-PCS
0T1B3JD	Bypass Bladder to Cutaneous with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0T1B479	Bypass Bladder to Colocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B47C	Bypass Bladder to Ileocutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B47D	Bypass Bladder to Cutaneous with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B4J9	Bypass Bladder to Colocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B4JC	Bypass Bladder to Ileocutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B4JD	Bypass Bladder to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B4K9	Bypass Bladder to Colocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T1B4KC	Bypass Bladder to Ileocutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B4KD	Bypass Bladder to Cutaneous with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B4Z9	Bypass Bladder to Colocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B4ZC	Bypass Bladder to Ileocutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T1B4ZD	Bypass Bladder to Cutaneous, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T500ZZ	Destruction of Right Kidney, Open Approach	PX	ICD-10-PCS
0T503ZZ	Destruction of Right Kidney, Percutaneous Approach	PX	ICD-10-PCS
0T504ZZ	Destruction of Right Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T507ZZ	Destruction of Right Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T508ZZ	Destruction of Right Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T510ZZ	Destruction of Left Kidney, Open Approach	PX	ICD-10-PCS
0T513ZZ	Destruction of Left Kidney, Percutaneous Approach	PX	ICD-10-PCS
0T514ZZ	Destruction of Left Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T517ZZ	Destruction of Left Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T518ZZ	Destruction of Left Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T530ZZ	Destruction of Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0T533ZZ	Destruction of Right Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0T534ZZ	Destruction of Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T537ZZ	Destruction of Right Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T538ZZ	Destruction of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T540ZZ	Destruction of Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0T543ZZ	Destruction of Left Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0T544ZZ	Destruction of Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T547ZZ	Destruction of Left Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T548ZZ	Destruction of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T560ZZ	Destruction of Right Ureter, Open Approach	PX	ICD-10-PCS
0T563ZZ	Destruction of Right Ureter, Percutaneous Approach	PX	ICD-10-PCS
0T564ZZ	Destruction of Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T567ZZ	Destruction of Right Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T568ZZ	Destruction of Right Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T570ZZ	Destruction of Left Ureter, Open Approach	PX	ICD-10-PCS
0T573ZZ	Destruction of Left Ureter, Percutaneous Approach	PX	ICD-10-PCS
0T574ZZ	Destruction of Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T577ZZ	Destruction of Left Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T578ZZ	Destruction of Left Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T5B0ZZ	Destruction of Bladder, Open Approach	PX	ICD-10-PCS
0T5B3ZZ	Destruction of Bladder, Percutaneous Approach	PX	ICD-10-PCS
0T5B4ZZ	Destruction of Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T5B7ZZ	Destruction of Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T5B8ZZ	Destruction of Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T5C0ZZ	Destruction of Bladder Neck, Open Approach	PX	ICD-10-PCS
0T5C3ZZ	Destruction of Bladder Neck, Percutaneous Approach	PX	ICD-10-PCS
0T5C4ZZ	Destruction of Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T5C7ZZ	Destruction of Bladder Neck, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T5C8ZZ	Destruction of Bladder Neck, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T5D0ZZ	Destruction of Urethra, Open Approach	PX	ICD-10-PCS
0T5D4ZZ	Destruction of Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T730DZ	Dilation of Right Kidney Pelvis with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0T730ZZ	Dilation of Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0T733DZ	Dilation of Right Kidney Pelvis with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0T733ZZ	Dilation of Right Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0T734DZ	Dilation of Right Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T734ZZ	Dilation of Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T737DZ	Dilation of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T737ZZ	Dilation of Right Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T738DZ	Dilation of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T738ZZ	Dilation of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T740DZ	Dilation of Left Kidney Pelvis with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0T740ZZ	Dilation of Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0T743DZ	Dilation of Left Kidney Pelvis with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0T743ZZ	Dilation of Left Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0T744DZ	Dilation of Left Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T744ZZ	Dilation of Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T747DZ	Dilation of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T747ZZ	Dilation of Left Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T748DZ	Dilation of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T748ZZ	Dilation of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T760DZ	Dilation of Right Ureter with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0T760ZZ	Dilation of Right Ureter, Open Approach	PX	ICD-10-PCS
0T763ZZ	Dilation of Right Ureter, Percutaneous Approach	PX	ICD-10-PCS
0T764DZ	Dilation of Right Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T764ZZ	Dilation of Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T770DZ	Dilation of Left Ureter with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0T770ZZ	Dilation of Left Ureter, Open Approach	PX	ICD-10-PCS
0T773ZZ	Dilation of Left Ureter, Percutaneous Approach	PX	ICD-10-PCS
0T774DZ	Dilation of Left Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T774ZZ	Dilation of Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T780DZ	Dilation of Bilateral Ureters with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0T780ZZ	Dilation of Bilateral Ureters, Open Approach	PX	ICD-10-PCS
0T783ZZ	Dilation of Bilateral Ureters, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T784DZ	Dilation of Bilateral Ureters with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T784ZZ	Dilation of Bilateral Ureters, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T7B0DZ	Dilation of Bladder with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0T7B0ZZ	Dilation of Bladder, Open Approach	PX	ICD-10-PCS
0T7B3DZ	Dilation of Bladder with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0T7B3ZZ	Dilation of Bladder, Percutaneous Approach	PX	ICD-10-PCS
0T7B4DZ	Dilation of Bladder with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T7B4ZZ	Dilation of Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T7C0DZ	Dilation of Bladder Neck with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0T7C0ZZ	Dilation of Bladder Neck, Open Approach	PX	ICD-10-PCS
0T7C4DZ	Dilation of Bladder Neck with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T7C4ZZ	Dilation of Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T7D0DZ	Dilation of Urethra with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0T7D0ZZ	Dilation of Urethra, Open Approach	PX	ICD-10-PCS
0T7D3ZZ	Dilation of Urethra, Percutaneous Approach	PX	ICD-10-PCS
0T7D4DZ	Dilation of Urethra with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T7D4ZZ	Dilation of Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T820ZZ	Division of Bilateral Kidneys, Open Approach	PX	ICD-10-PCS
0T823ZZ	Division of Bilateral Kidneys, Percutaneous Approach	PX	ICD-10-PCS
0T824ZZ	Division of Bilateral Kidneys, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T8C0ZZ	Division of Bladder Neck, Open Approach	PX	ICD-10-PCS
0T8C3ZZ	Division of Bladder Neck, Percutaneous Approach	PX	ICD-10-PCS
0T8C4ZZ	Division of Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T9000Z	Drainage of Right Kidney with Drainage Device, Open Approach	PX	ICD-10-PCS
0T900ZZ	Drainage of Right Kidney, Open Approach	PX	ICD-10-PCS
0T9040Z	Drainage of Right Kidney with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T904ZZ	Drainage of Right Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T9070Z	Drainage of Right Kidney with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T907ZZ	Drainage of Right Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T9080Z	Drainage of Right Kidney with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T908ZZ	Drainage of Right Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T9100Z	Drainage of Left Kidney with Drainage Device, Open Approach	PX	ICD-10-PCS
0T910ZZ	Drainage of Left Kidney, Open Approach	PX	ICD-10-PCS
0T9140Z	Drainage of Left Kidney with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T914ZZ	Drainage of Left Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T9170Z	Drainage of Left Kidney with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T917ZZ	Drainage of Left Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T9180Z	Drainage of Left Kidney with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T918ZZ	Drainage of Left Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T9300Z	Drainage of Right Kidney Pelvis with Drainage Device, Open Approach	PX	ICD-10-PCS
0T930ZZ	Drainage of Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0T9340Z	Drainage of Right Kidney Pelvis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T934ZZ	Drainage of Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T9370Z	Drainage of Right Kidney Pelvis with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T937ZZ	Drainage of Right Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T9380Z	Drainage of Right Kidney Pelvis with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T938ZZ	Drainage of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T9400Z	Drainage of Left Kidney Pelvis with Drainage Device, Open Approach	PX	ICD-10-PCS
0T940ZZ	Drainage of Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0T9440Z	Drainage of Left Kidney Pelvis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T944ZZ	Drainage of Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T9470Z	Drainage of Left Kidney Pelvis with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T947ZZ	Drainage of Left Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T9480Z	Drainage of Left Kidney Pelvis with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T948ZZ	Drainage of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T9600Z	Drainage of Right Ureter with Drainage Device, Open Approach	PX	ICD-10-PCS
0T960ZZ	Drainage of Right Ureter, Open Approach	PX	ICD-10-PCS
0T9640Z	Drainage of Right Ureter with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T964ZZ	Drainage of Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T967ZZ	Drainage of Right Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T968ZZ	Drainage of Right Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T9700Z	Drainage of Left Ureter with Drainage Device, Open Approach	PX	ICD-10-PCS
0T970ZZ	Drainage of Left Ureter, Open Approach	PX	ICD-10-PCS
0T9740Z	Drainage of Left Ureter with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T974ZZ	Drainage of Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T977ZZ	Drainage of Left Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0T978ZZ	Drainage of Left Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T9800Z	Drainage of Bilateral Ureters with Drainage Device, Open Approach	PX	ICD-10-PCS
0T980ZZ	Drainage of Bilateral Ureters, Open Approach	PX	ICD-10-PCS
0T9840Z	Drainage of Bilateral Ureters with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T984ZZ	Drainage of Bilateral Ureters, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T987ZZ	Drainage of Bilateral Ureters, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0T988ZZ	Drainage of Bilateral Ureters, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0T9B00Z	Drainage of Bladder with Drainage Device, Open Approach	PX	ICD-10-PCS
0T9B0ZZ	Drainage of Bladder, Open Approach	PX	ICD-10-PCS
0T9B40Z	Drainage of Bladder with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T9B4ZZ	Drainage of Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T9C00Z	Drainage of Bladder Neck with Drainage Device, Open Approach	PX	ICD-10-PCS
0T9C0ZZ	Drainage of Bladder Neck, Open Approach	PX	ICD-10-PCS
0T9C40Z	Drainage of Bladder Neck with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T9C4ZZ	Drainage of Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T9D00Z	Drainage of Urethra with Drainage Device, Open Approach	PX	ICD-10-PCS
0T9D0ZZ	Drainage of Urethra, Open Approach	PX	ICD-10-PCS
0T9D40Z	Drainage of Urethra with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0T9D4ZZ	Drainage of Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TB00ZZ	Excision of Right Kidney, Open Approach	PX	ICD-10-PCS
0TB03ZZ	Excision of Right Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TB04ZZ	Excision of Right Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TB07ZZ	Excision of Right Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TB08ZZ	Excision of Right Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TB10ZZ	Excision of Left Kidney, Open Approach	PX	ICD-10-PCS
0TB13ZZ	Excision of Left Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TB14ZZ	Excision of Left Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TB17ZZ	Excision of Left Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TB18ZZ	Excision of Left Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TB30ZZ	Excision of Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TB33ZZ	Excision of Right Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TB34ZZ	Excision of Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TB37ZZ	Excision of Right Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TB38ZZ	Excision of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TB40ZZ	Excision of Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TB43ZZ	Excision of Left Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TB44ZZ	Excision of Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TB47ZZ	Excision of Left Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TB48ZZ	Excision of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TB60ZZ	Excision of Right Ureter, Open Approach	PX	ICD-10-PCS
0TB63ZZ	Excision of Right Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TB64ZZ	Excision of Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TB67ZZ	Excision of Right Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TB68ZZ	Excision of Right Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TB70ZZ	Excision of Left Ureter, Open Approach	PX	ICD-10-PCS
0TB73ZZ	Excision of Left Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TB74ZZ	Excision of Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TB77ZZ	Excision of Left Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TB78ZZ	Excision of Left Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TBB0ZZ	Excision of Bladder, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TBB3ZZ	Excision of Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TBB4ZZ	Excision of Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TBB7ZZ	Excision of Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TBB8ZZ	Excision of Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TBC0ZZ	Excision of Bladder Neck, Open Approach	PX	ICD-10-PCS
0TBC3ZZ	Excision of Bladder Neck, Percutaneous Approach	PX	ICD-10-PCS
0TBC4ZZ	Excision of Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TBC7ZZ	Excision of Bladder Neck, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TBC8ZZ	Excision of Bladder Neck, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TBD0ZZ	Excision of Urethra, Open Approach	PX	ICD-10-PCS
0TBD3ZZ	Excision of Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TBD4ZZ	Excision of Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TC00ZZ	Extirpation of Matter from Right Kidney, Open Approach	PX	ICD-10-PCS
0TC03ZZ	Extirpation of Matter from Right Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TC04ZZ	Extirpation of Matter from Right Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TC10ZZ	Extirpation of Matter from Left Kidney, Open Approach	PX	ICD-10-PCS
0TC13ZZ	Extirpation of Matter from Left Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TC14ZZ	Extirpation of Matter from Left Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TC30ZZ	Extirpation of Matter from Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TC33ZZ	Extirpation of Matter from Right Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TC34ZZ	Extirpation of Matter from Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TC40ZZ	Extirpation of Matter from Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TC43ZZ	Extirpation of Matter from Left Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TC44ZZ	Extirpation of Matter from Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TC60ZZ	Extirpation of Matter from Right Ureter, Open Approach	PX	ICD-10-PCS
0TC63ZZ	Extirpation of Matter from Right Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TC64ZZ	Extirpation of Matter from Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TC70ZZ	Extirpation of Matter from Left Ureter, Open Approach	PX	ICD-10-PCS
0TC73ZZ	Extirpation of Matter from Left Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TC74ZZ	Extirpation of Matter from Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TCB0ZZ	Extirpation of Matter from Bladder, Open Approach	PX	ICD-10-PCS
0TCB3ZZ	Extirpation of Matter from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TCB4ZZ	Extirpation of Matter from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TCC0ZZ	Extirpation of Matter from Bladder Neck, Open Approach	PX	ICD-10-PCS
0TCC3ZZ	Extirpation of Matter from Bladder Neck, Percutaneous Approach	PX	ICD-10-PCS
0TCC4ZZ	Extirpation of Matter from Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TCD0ZZ	Extirpation of Matter from Urethra, Open Approach	PX	ICD-10-PCS
0TCD3ZZ	Extirpation of Matter from Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TCD4ZZ	Extirpation of Matter from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TD00ZZ	Extraction of Right Kidney, Open Approach	PX	ICD-10-PCS
0TD03ZZ	Extraction of Right Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TD04ZZ	Extraction of Right Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TD10ZZ	Extraction of Left Kidney, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TD13ZZ	Extraction of Left Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TD14ZZ	Extraction of Left Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TF30ZZ	Fragmentation in Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TF33ZZ	Fragmentation in Right Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TF34ZZ	Fragmentation in Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TF40ZZ	Fragmentation in Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TF43ZZ	Fragmentation in Left Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TF44ZZ	Fragmentation in Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TF60ZZ	Fragmentation in Right Ureter, Open Approach	PX	ICD-10-PCS
0TF64ZZ	Fragmentation in Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TF70ZZ	Fragmentation in Left Ureter, Open Approach	PX	ICD-10-PCS
0TF74ZZ	Fragmentation in Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TFB0ZZ	Fragmentation in Bladder, Open Approach	PX	ICD-10-PCS
0TFB4ZZ	Fragmentation in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TFC0ZZ	Fragmentation in Bladder Neck, Open Approach	PX	ICD-10-PCS
0TFC4ZZ	Fragmentation in Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TFD0ZZ	Fragmentation in Urethra, Open Approach	PX	ICD-10-PCS
0TFD4ZZ	Fragmentation in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TH501Z	Insertion of Radioactive Element into Kidney, Open Approach	PX	ICD-10-PCS
0TH503Z	Insertion of Infusion Device into Kidney, Open Approach	PX	ICD-10-PCS
0TH50YZ	Insertion of Other Device into Kidney, Open Approach	PX	ICD-10-PCS
0TH541Z	Insertion of Radioactive Element into Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TH543Z	Insertion of Infusion Device into Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TH54YZ	Insertion of Other Device into Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TH58YZ	Insertion of Other Device into Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TH901Z	Insertion of Radioactive Element into Ureter, Open Approach	PX	ICD-10-PCS
0TH903Z	Insertion of Infusion Device into Ureter, Open Approach	PX	ICD-10-PCS
0TH90MZ	Insertion of Stimulator Lead into Ureter, Open Approach	PX	ICD-10-PCS
0TH90YZ	Insertion of Other Device into Ureter, Open Approach	PX	ICD-10-PCS
0TH93MZ	Insertion of Stimulator Lead into Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TH941Z	Insertion of Radioactive Element into Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TH943Z	Insertion of Infusion Device into Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TH94MZ	Insertion of Stimulator Lead into Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TH94YZ	Insertion of Other Device into Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TH97MZ	Insertion of Stimulator Lead into Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TH98MZ	Insertion of Stimulator Lead into Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TH98YZ	Insertion of Other Device into Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0THB01Z	Insertion of Radioactive Element into Bladder, Open Approach	PX	ICD-10-PCS
0THB03Z	Insertion of Infusion Device into Bladder, Open Approach	PX	ICD-10-PCS
0THB0LZ	Insertion of Artificial Sphincter into Bladder, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0THB0MZ	Insertion of Stimulator Lead into Bladder, Open Approach	PX	ICD-10-PCS
0THB0YZ	Insertion of Other Device into Bladder, Open Approach	PX	ICD-10-PCS
0THB3LZ	Insertion of Artificial Sphincter into Bladder, Percutaneous Approach	PX	ICD-10-PCS
0THB3MZ	Insertion of Stimulator Lead into Bladder, Percutaneous Approach	PX	ICD-10-PCS
0THB41Z	Insertion of Radioactive Element into Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0THB43Z	Insertion of Infusion Device into Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0THB4LZ	Insertion of Artificial Sphincter into Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0THB4MZ	Insertion of Stimulator Lead into Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0THB4YZ	Insertion of Other Device into Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0THB7LZ	Insertion of Artificial Sphincter into Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0THB7MZ	Insertion of Stimulator Lead into Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0THB8LZ	Insertion of Artificial Sphincter into Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0THB8MZ	Insertion of Stimulator Lead into Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0THB8YZ	Insertion of Other Device into Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0THC0LZ	Insertion of Artificial Sphincter into Bladder Neck, Open Approach	PX	ICD-10-PCS
0THC3LZ	Insertion of Artificial Sphincter into Bladder Neck, Percutaneous Approach	PX	ICD-10-PCS
0THC4LZ	Insertion of Artificial Sphincter into Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0THC7LZ	Insertion of Artificial Sphincter into Bladder Neck, Via Natural or Artificial Opening	PX	ICD-10-PCS
0THC8LZ	Insertion of Artificial Sphincter into Bladder Neck, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0THD01Z	Insertion of Radioactive Element into Urethra, Open Approach	PX	ICD-10-PCS
0THD03Z	Insertion of Infusion Device into Urethra, Open Approach	PX	ICD-10-PCS
0THD0LZ	Insertion of Artificial Sphincter into Urethra, Open Approach	PX	ICD-10-PCS
0THD0YZ	Insertion of Other Device into Urethra, Open Approach	PX	ICD-10-PCS
0THD3LZ	Insertion of Artificial Sphincter into Urethra, Percutaneous Approach	PX	ICD-10-PCS
0THD41Z	Insertion of Radioactive Element into Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0THD43Z	Insertion of Infusion Device into Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0THD4LZ	Insertion of Artificial Sphincter into Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0THD4YZ	Insertion of Other Device into Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0THD7LZ	Insertion of Artificial Sphincter into Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0THD8LZ	Insertion of Artificial Sphincter into Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0THDXLZ	Insertion of Artificial Sphincter into Urethra, External Approach	PX	ICD-10-PCS
0TL30CZ	Occlusion of Right Kidney Pelvis with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TL30DZ	Occlusion of Right Kidney Pelvis with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TL30ZZ	Occlusion of Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TL33CZ	Occlusion of Right Kidney Pelvis with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TL33DZ	Occlusion of Right Kidney Pelvis with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TL33ZZ	Occlusion of Right Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TL34CZ	Occlusion of Right Kidney Pelvis with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL34DZ	Occlusion of Right Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL34ZZ	Occlusion of Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL37DZ	Occlusion of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TL37ZZ	Occlusion of Right Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TL38DZ	Occlusion of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TL38ZZ	Occlusion of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TL40CZ	Occlusion of Left Kidney Pelvis with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TL40DZ	Occlusion of Left Kidney Pelvis with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TL40ZZ	Occlusion of Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TL43CZ	Occlusion of Left Kidney Pelvis with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TL43DZ	Occlusion of Left Kidney Pelvis with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TL43ZZ	Occlusion of Left Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TL44CZ	Occlusion of Left Kidney Pelvis with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL44DZ	Occlusion of Left Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL44ZZ	Occlusion of Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL47DZ	Occlusion of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TL47ZZ	Occlusion of Left Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TL48DZ	Occlusion of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TL48ZZ	Occlusion of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TL60CZ	Occlusion of Right Ureter with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TL60DZ	Occlusion of Right Ureter with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TL60ZZ	Occlusion of Right Ureter, Open Approach	PX	ICD-10-PCS
0TL63CZ	Occlusion of Right Ureter with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TL63DZ	Occlusion of Right Ureter with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TL63ZZ	Occlusion of Right Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TL64CZ	Occlusion of Right Ureter with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL64DZ	Occlusion of Right Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL64ZZ	Occlusion of Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TL67DZ	Occlusion of Right Ureter with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TL67ZZ	Occlusion of Right Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TL68DZ	Occlusion of Right Ureter with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TL68ZZ	Occlusion of Right Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TL70CZ	Occlusion of Left Ureter with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TL70DZ	Occlusion of Left Ureter with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TL70ZZ	Occlusion of Left Ureter, Open Approach	PX	ICD-10-PCS
0TL73CZ	Occlusion of Left Ureter with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TL73DZ	Occlusion of Left Ureter with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TL73ZZ	Occlusion of Left Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TL74CZ	Occlusion of Left Ureter with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL74DZ	Occlusion of Left Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL74ZZ	Occlusion of Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TL77DZ	Occlusion of Left Ureter with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TL77ZZ	Occlusion of Left Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TL78DZ	Occlusion of Left Ureter with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TL78ZZ	Occlusion of Left Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TLB0CZ	Occlusion of Bladder with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TLB0DZ	Occlusion of Bladder with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TLB0ZZ	Occlusion of Bladder, Open Approach	PX	ICD-10-PCS
0TLB3CZ	Occlusion of Bladder with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TLB3DZ	Occlusion of Bladder with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TLB3ZZ	Occlusion of Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TLB4CZ	Occlusion of Bladder with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TLB4DZ	Occlusion of Bladder with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TLB4ZZ	Occlusion of Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TLB7DZ	Occlusion of Bladder with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TLB7ZZ	Occlusion of Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TLB8DZ	Occlusion of Bladder with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TLB8ZZ	Occlusion of Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TLC0CZ	Occlusion of Bladder Neck with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TLC0DZ	Occlusion of Bladder Neck with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TLC0ZZ	Occlusion of Bladder Neck, Open Approach	PX	ICD-10-PCS
0TLC3CZ	Occlusion of Bladder Neck with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TLC3DZ	Occlusion of Bladder Neck with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TLC3ZZ	Occlusion of Bladder Neck, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TLC4CZ	Occlusion of Bladder Neck with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TLC4DZ	Occlusion of Bladder Neck with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TLC4ZZ	Occlusion of Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TLC7DZ	Occlusion of Bladder Neck with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TLC7ZZ	Occlusion of Bladder Neck, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TLC8DZ	Occlusion of Bladder Neck with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TLC8ZZ	Occlusion of Bladder Neck, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TLD0CZ	Occlusion of Urethra with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TLD0DZ	Occlusion of Urethra with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TLD0ZZ	Occlusion of Urethra, Open Approach	PX	ICD-10-PCS
0TLD3CZ	Occlusion of Urethra with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TLD3DZ	Occlusion of Urethra with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TLD3ZZ	Occlusion of Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TLD4CZ	Occlusion of Urethra with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TLD4DZ	Occlusion of Urethra with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TLD4ZZ	Occlusion of Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TLD7DZ	Occlusion of Urethra with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TLD7ZZ	Occlusion of Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TLD8DZ	Occlusion of Urethra with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TLD8ZZ	Occlusion of Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TLDXCZ	Occlusion of Urethra with Extraluminal Device, External Approach	PX	ICD-10-PCS
0TLDXDZ	Occlusion of Urethra with Intraluminal Device, External Approach	PX	ICD-10-PCS
0TLDXZZ	Occlusion of Urethra, External Approach	PX	ICD-10-PCS
0TM00ZZ	Reattachment of Right Kidney, Open Approach	PX	ICD-10-PCS
0TM04ZZ	Reattachment of Right Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TM10ZZ	Reattachment of Left Kidney, Open Approach	PX	ICD-10-PCS
0TM14ZZ	Reattachment of Left Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TM20ZZ	Reattachment of Bilateral Kidneys, Open Approach	PX	ICD-10-PCS
0TM24ZZ	Reattachment of Bilateral Kidneys, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TM30ZZ	Reattachment of Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TM34ZZ	Reattachment of Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TM40ZZ	Reattachment of Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TM44ZZ	Reattachment of Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TM60ZZ	Reattachment of Right Ureter, Open Approach	PX	ICD-10-PCS
0TM64ZZ	Reattachment of Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TM70ZZ	Reattachment of Left Ureter, Open Approach	PX	ICD-10-PCS
0TM74ZZ	Reattachment of Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TM80ZZ	Reattachment of Bilateral Ureters, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TM84ZZ	Reattachment of Bilateral Ureters, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TMB0ZZ	Reattachment of Bladder, Open Approach	PX	ICD-10-PCS
0TMB4ZZ	Reattachment of Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TMC0ZZ	Reattachment of Bladder Neck, Open Approach	PX	ICD-10-PCS
0TMC4ZZ	Reattachment of Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TMD0ZZ	Reattachment of Urethra, Open Approach	PX	ICD-10-PCS
0TMD4ZZ	Reattachment of Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TN00ZZ	Release Right Kidney, Open Approach	PX	ICD-10-PCS
0TN03ZZ	Release Right Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TN04ZZ	Release Right Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TN07ZZ	Release Right Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TN08ZZ	Release Right Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TN10ZZ	Release Left Kidney, Open Approach	PX	ICD-10-PCS
0TN13ZZ	Release Left Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TN14ZZ	Release Left Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TN17ZZ	Release Left Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TN18ZZ	Release Left Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TN30ZZ	Release Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TN33ZZ	Release Right Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TN34ZZ	Release Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TN37ZZ	Release Right Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TN38ZZ	Release Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TN40ZZ	Release Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TN43ZZ	Release Left Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TN44ZZ	Release Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TN47ZZ	Release Left Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TN48ZZ	Release Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TN60ZZ	Release Right Ureter, Open Approach	PX	ICD-10-PCS
0TN63ZZ	Release Right Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TN64ZZ	Release Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TN67ZZ	Release Right Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TN68ZZ	Release Right Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TN70ZZ	Release Left Ureter, Open Approach	PX	ICD-10-PCS
0TN73ZZ	Release Left Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TN74ZZ	Release Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TN77ZZ	Release Left Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TN78ZZ	Release Left Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TNB0ZZ	Release Bladder, Open Approach	PX	ICD-10-PCS
0TNB3ZZ	Release Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TNB4ZZ	Release Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TNB7ZZ	Release Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TNB8ZZ	Release Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TNC0ZZ	Release Bladder Neck, Open Approach	PX	ICD-10-PCS
0TNC3ZZ	Release Bladder Neck, Percutaneous Approach	PX	ICD-10-PCS
0TNC4ZZ	Release Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TNC7ZZ	Release Bladder Neck, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TNC8ZZ	Release Bladder Neck, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TND0ZZ	Release Urethra, Open Approach	PX	ICD-10-PCS
0TND3ZZ	Release Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TND4ZZ	Release Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TND7ZZ	Release Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TND8ZZ	Release Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TNDXZZ	Release Urethra, External Approach	PX	ICD-10-PCS
0TP500Z	Removal of Drainage Device from Kidney, Open Approach	PX	ICD-10-PCS
0TP502Z	Removal of Monitoring Device from Kidney, Open Approach	PX	ICD-10-PCS
0TP503Z	Removal of Infusion Device from Kidney, Open Approach	PX	ICD-10-PCS
0TP507Z	Removal of Autologous Tissue Substitute from Kidney, Open Approach	PX	ICD-10-PCS
0TP50CZ	Removal of Extraluminal Device from Kidney, Open Approach	PX	ICD-10-PCS
0TP50DZ	Removal of Intraluminal Device from Kidney, Open Approach	PX	ICD-10-PCS
0TP50JZ	Removal of Synthetic Substitute from Kidney, Open Approach	PX	ICD-10-PCS
0TP50KZ	Removal of Nonautologous Tissue Substitute from Kidney, Open Approach	PX	ICD-10-PCS
0TP50YZ	Removal of Other Device from Kidney, Open Approach	PX	ICD-10-PCS
0TP530Z	Removal of Drainage Device from Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TP532Z	Removal of Monitoring Device from Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TP533Z	Removal of Infusion Device from Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TP537Z	Removal of Autologous Tissue Substitute from Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TP53CZ	Removal of Extraluminal Device from Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TP53DZ	Removal of Intraluminal Device from Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TP53JZ	Removal of Synthetic Substitute from Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TP53KZ	Removal of Nonautologous Tissue Substitute from Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TP540Z	Removal of Drainage Device from Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP542Z	Removal of Monitoring Device from Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP543Z	Removal of Infusion Device from Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP547Z	Removal of Autologous Tissue Substitute from Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP54CZ	Removal of Extraluminal Device from Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP54DZ	Removal of Intraluminal Device from Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP54JZ	Removal of Synthetic Substitute from Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP54KZ	Removal of Nonautologous Tissue Substitute from Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP54YZ	Removal of Other Device from Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP577Z	Removal of Autologous Tissue Substitute from Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TP57CZ	Removal of Extraluminal Device from Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TP57JZ	Removal of Synthetic Substitute from Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TP57KZ	Removal of Nonautologous Tissue Substitute from Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TP587Z	Removal of Autologous Tissue Substitute from Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP58CZ	Removal of Extraluminal Device from Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP58JZ	Removal of Synthetic Substitute from Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP58KZ	Removal of Nonautologous Tissue Substitute from Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP58YZ	Removal of Other Device from Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP900Z	Removal of Drainage Device from Ureter, Open Approach	PX	ICD-10-PCS
0TP902Z	Removal of Monitoring Device from Ureter, Open Approach	PX	ICD-10-PCS
0TP903Z	Removal of Infusion Device from Ureter, Open Approach	PX	ICD-10-PCS
0TP907Z	Removal of Autologous Tissue Substitute from Ureter, Open Approach	PX	ICD-10-PCS
0TP90CZ	Removal of Extraluminal Device from Ureter, Open Approach	PX	ICD-10-PCS
0TP90DZ	Removal of Intraluminal Device from Ureter, Open Approach	PX	ICD-10-PCS
0TP90JZ	Removal of Synthetic Substitute from Ureter, Open Approach	PX	ICD-10-PCS
0TP90KZ	Removal of Nonautologous Tissue Substitute from Ureter, Open Approach	PX	ICD-10-PCS
0TP90MZ	Removal of Stimulator Lead from Ureter, Open Approach	PX	ICD-10-PCS
0TP90YZ	Removal of Other Device from Ureter, Open Approach	PX	ICD-10-PCS
0TP930Z	Removal of Drainage Device from Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TP932Z	Removal of Monitoring Device from Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TP933Z	Removal of Infusion Device from Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TP937Z	Removal of Autologous Tissue Substitute from Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TP93CZ	Removal of Extraluminal Device from Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TP93DZ	Removal of Intraluminal Device from Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TP93JZ	Removal of Synthetic Substitute from Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TP93KZ	Removal of Nonautologous Tissue Substitute from Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TP93MZ	Removal of Stimulator Lead from Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TP940Z	Removal of Drainage Device from Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP942Z	Removal of Monitoring Device from Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP943Z	Removal of Infusion Device from Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP947Z	Removal of Autologous Tissue Substitute from Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP94CZ	Removal of Extraluminal Device from Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP94DZ	Removal of Intraluminal Device from Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP94JZ	Removal of Synthetic Substitute from Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP94KZ	Removal of Nonautologous Tissue Substitute from Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TP94MZ	Removal of Stimulator Lead from Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP94YZ	Removal of Other Device from Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TP977Z	Removal of Autologous Tissue Substitute from Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TP97CZ	Removal of Extraluminal Device from Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TP97JZ	Removal of Synthetic Substitute from Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TP97KZ	Removal of Nonautologous Tissue Substitute from Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TP97MZ	Removal of Stimulator Lead from Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TP987Z	Removal of Autologous Tissue Substitute from Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP98CZ	Removal of Extraluminal Device from Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP98JZ	Removal of Synthetic Substitute from Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP98KZ	Removal of Nonautologous Tissue Substitute from Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP98MZ	Removal of Stimulator Lead from Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP98YZ	Removal of Other Device from Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TP9XMZ	Removal of Stimulator Lead from Ureter, External Approach	PX	ICD-10-PCS
0TPB00Z	Removal of Drainage Device from Bladder, Open Approach	PX	ICD-10-PCS
0TPB02Z	Removal of Monitoring Device from Bladder, Open Approach	PX	ICD-10-PCS
0TPB03Z	Removal of Infusion Device from Bladder, Open Approach	PX	ICD-10-PCS
0TPB07Z	Removal of Autologous Tissue Substitute from Bladder, Open Approach	PX	ICD-10-PCS
0TPB0CZ	Removal of Extraluminal Device from Bladder, Open Approach	PX	ICD-10-PCS
0TPB0DZ	Removal of Intraluminal Device from Bladder, Open Approach	PX	ICD-10-PCS
0TPB0JZ	Removal of Synthetic Substitute from Bladder, Open Approach	PX	ICD-10-PCS
0TPB0KZ	Removal of Nonautologous Tissue Substitute from Bladder, Open Approach	PX	ICD-10-PCS
0TPB0LZ	Removal of Artificial Sphincter from Bladder, Open Approach	PX	ICD-10-PCS
0TPB0MZ	Removal of Stimulator Lead from Bladder, Open Approach	PX	ICD-10-PCS
0TPB0YZ	Removal of Other Device from Bladder, Open Approach	PX	ICD-10-PCS
0TPB30Z	Removal of Drainage Device from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TPB32Z	Removal of Monitoring Device from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TPB33Z	Removal of Infusion Device from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TPB37Z	Removal of Autologous Tissue Substitute from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TPB3CZ	Removal of Extraluminal Device from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TPB3DZ	Removal of Intraluminal Device from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TPB3JZ	Removal of Synthetic Substitute from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TPB3KZ	Removal of Nonautologous Tissue Substitute from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TPB3LZ	Removal of Artificial Sphincter from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TPB3MZ	Removal of Stimulator Lead from Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TPB40Z	Removal of Drainage Device from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TPB42Z	Removal of Monitoring Device from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPB43Z	Removal of Infusion Device from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPB47Z	Removal of Autologous Tissue Substitute from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPB4CZ	Removal of Extraluminal Device from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPB4DZ	Removal of Intraluminal Device from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPB4JZ	Removal of Synthetic Substitute from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPB4KZ	Removal of Nonautologous Tissue Substitute from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPB4LZ	Removal of Artificial Sphincter from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPB4MZ	Removal of Stimulator Lead from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPB4YZ	Removal of Other Device from Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPB77Z	Removal of Autologous Tissue Substitute from Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPB7CZ	Removal of Extraluminal Device from Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPB7JZ	Removal of Synthetic Substitute from Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPB7KZ	Removal of Nonautologous Tissue Substitute from Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPB7LZ	Removal of Artificial Sphincter from Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPB7MZ	Removal of Stimulator Lead from Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPB87Z	Removal of Autologous Tissue Substitute from Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPB8CZ	Removal of Extraluminal Device from Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPB8JZ	Removal of Synthetic Substitute from Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPB8KZ	Removal of Nonautologous Tissue Substitute from Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPB8LZ	Removal of Artificial Sphincter from Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPB8MZ	Removal of Stimulator Lead from Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPB8YZ	Removal of Other Device from Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPBXMZ	Removal of Stimulator Lead from Bladder, External Approach	PX	ICD-10-PCS
0TPD00Z	Removal of Drainage Device from Urethra, Open Approach	PX	ICD-10-PCS
0TPD02Z	Removal of Monitoring Device from Urethra, Open Approach	PX	ICD-10-PCS
0TPD03Z	Removal of Infusion Device from Urethra, Open Approach	PX	ICD-10-PCS
0TPD07Z	Removal of Autologous Tissue Substitute from Urethra, Open Approach	PX	ICD-10-PCS
0TPD0CZ	Removal of Extraluminal Device from Urethra, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TPD0DZ	Removal of Intraluminal Device from Urethra, Open Approach	PX	ICD-10-PCS
0TPD0JZ	Removal of Synthetic Substitute from Urethra, Open Approach	PX	ICD-10-PCS
0TPD0KZ	Removal of Nonautologous Tissue Substitute from Urethra, Open Approach	PX	ICD-10-PCS
0TPD0LZ	Removal of Artificial Sphincter from Urethra, Open Approach	PX	ICD-10-PCS
0TPD0YZ	Removal of Other Device from Urethra, Open Approach	PX	ICD-10-PCS
0TPD30Z	Removal of Drainage Device from Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TPD32Z	Removal of Monitoring Device from Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TPD33Z	Removal of Infusion Device from Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TPD37Z	Removal of Autologous Tissue Substitute from Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TPD3CZ	Removal of Extraluminal Device from Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TPD3DZ	Removal of Intraluminal Device from Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TPD3JZ	Removal of Synthetic Substitute from Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TPD3KZ	Removal of Nonautologous Tissue Substitute from Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TPD3LZ	Removal of Artificial Sphincter from Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TPD40Z	Removal of Drainage Device from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPD42Z	Removal of Monitoring Device from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPD43Z	Removal of Infusion Device from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPD47Z	Removal of Autologous Tissue Substitute from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPD4CZ	Removal of Extraluminal Device from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPD4DZ	Removal of Intraluminal Device from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPD4JZ	Removal of Synthetic Substitute from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPD4KZ	Removal of Nonautologous Tissue Substitute from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPD4LZ	Removal of Artificial Sphincter from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPD4YZ	Removal of Other Device from Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TPD77Z	Removal of Autologous Tissue Substitute from Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPD7CZ	Removal of Extraluminal Device from Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPD7JZ	Removal of Synthetic Substitute from Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPD7KZ	Removal of Nonautologous Tissue Substitute from Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPD7LZ	Removal of Artificial Sphincter from Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TPD87Z	Removal of Autologous Tissue Substitute from Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPD8CZ	Removal of Extraluminal Device from Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPD8JZ	Removal of Synthetic Substitute from Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TPD8KZ	Removal of Nonautologous Tissue Substitute from Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPD8LZ	Removal of Artificial Sphincter from Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TPDXLZ	Removal of Artificial Sphincter from Urethra, External Approach	PX	ICD-10-PCS
0TQ00ZZ	Repair Right Kidney, Open Approach	PX	ICD-10-PCS
0TQ03ZZ	Repair Right Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TQ04ZZ	Repair Right Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TQ07ZZ	Repair Right Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TQ08ZZ	Repair Right Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TQ10ZZ	Repair Left Kidney, Open Approach	PX	ICD-10-PCS
0TQ13ZZ	Repair Left Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TQ14ZZ	Repair Left Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TQ17ZZ	Repair Left Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TQ18ZZ	Repair Left Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TQ30ZZ	Repair Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TQ33ZZ	Repair Right Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TQ34ZZ	Repair Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TQ37ZZ	Repair Right Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TQ38ZZ	Repair Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TQ40ZZ	Repair Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TQ43ZZ	Repair Left Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TQ44ZZ	Repair Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TQ47ZZ	Repair Left Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TQ48ZZ	Repair Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TQ60ZZ	Repair Right Ureter, Open Approach	PX	ICD-10-PCS
0TQ63ZZ	Repair Right Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TQ64ZZ	Repair Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TQ67ZZ	Repair Right Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TQ68ZZ	Repair Right Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TQ70ZZ	Repair Left Ureter, Open Approach	PX	ICD-10-PCS
0TQ73ZZ	Repair Left Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TQ74ZZ	Repair Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TQ77ZZ	Repair Left Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TQ78ZZ	Repair Left Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TQB0ZZ	Repair Bladder, Open Approach	PX	ICD-10-PCS
0TQB3ZZ	Repair Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TQB4ZZ	Repair Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TQB7ZZ	Repair Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TQB8ZZ	Repair Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TQC0ZZ	Repair Bladder Neck, Open Approach	PX	ICD-10-PCS
0TQC4ZZ	Repair Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TQD0ZZ	Repair Urethra, Open Approach	PX	ICD-10-PCS
0TQD3ZZ	Repair Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TQD4ZZ	Repair Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TQD7ZZ	Repair Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TQD8ZZ	Repair Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TQDXZZ	Repair Urethra, External Approach	PX	ICD-10-PCS
0TR307Z	Replacement of Right Kidney Pelvis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TR30JZ	Replacement of Right Kidney Pelvis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TR30KZ	Replacement of Right Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TR347Z	Replacement of Right Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR34JZ	Replacement of Right Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR34KZ	Replacement of Right Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR377Z	Replacement of Right Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR37JZ	Replacement of Right Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR37KZ	Replacement of Right Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR387Z	Replacement of Right Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TR38JZ	Replacement of Right Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TR38KZ	Replacement of Right Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TR407Z	Replacement of Left Kidney Pelvis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TR40JZ	Replacement of Left Kidney Pelvis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TR40KZ	Replacement of Left Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TR447Z	Replacement of Left Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR44JZ	Replacement of Left Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR44KZ	Replacement of Left Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR477Z	Replacement of Left Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR47JZ	Replacement of Left Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR47KZ	Replacement of Left Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR487Z	Replacement of Left Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TR48JZ	Replacement of Left Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TR48KZ	Replacement of Left Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TR607Z	Replacement of Right Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TR60JZ	Replacement of Right Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TR60KZ	Replacement of Right Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TR647Z	Replacement of Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR64JZ	Replacement of Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR64KZ	Replacement of Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR677Z	Replacement of Right Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR67JZ	Replacement of Right Ureter with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR67KZ	Replacement of Right Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR687Z	Replacement of Right Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TR68JZ	Replacement of Right Ureter with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TR68KZ	Replacement of Right Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TR707Z	Replacement of Left Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TR70JZ	Replacement of Left Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TR70KZ	Replacement of Left Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TR747Z	Replacement of Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR74JZ	Replacement of Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR74KZ	Replacement of Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TR777Z	Replacement of Left Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR77JZ	Replacement of Left Ureter with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR77KZ	Replacement of Left Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TR787Z	Replacement of Left Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TR78JZ	Replacement of Left Ureter with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TR78KZ	Replacement of Left Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TRB07Z	Replacement of Bladder with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TRB0JZ	Replacement of Bladder with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TRB0KZ	Replacement of Bladder with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TRB47Z	Replacement of Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TRB4JZ	Replacement of Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TRB4KZ	Replacement of Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TRB77Z	Replacement of Bladder with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TRB7JZ	Replacement of Bladder with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TRB7KZ	Replacement of Bladder with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TRB87Z	Replacement of Bladder with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TRB8JZ	Replacement of Bladder with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TRB8KZ	Replacement of Bladder with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TRC07Z	Replacement of Bladder Neck with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TRC0JZ	Replacement of Bladder Neck with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TRC0KZ	Replacement of Bladder Neck with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TRC47Z	Replacement of Bladder Neck with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TRC4JZ	Replacement of Bladder Neck with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TRC4KZ	Replacement of Bladder Neck with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TRC77Z	Replacement of Bladder Neck with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TRC7JZ	Replacement of Bladder Neck with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TRC7KZ	Replacement of Bladder Neck with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TRC87Z	Replacement of Bladder Neck with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TRC8JZ	Replacement of Bladder Neck with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TRC8KZ	Replacement of Bladder Neck with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TRD07Z	Replacement of Urethra with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TRD0JZ	Replacement of Urethra with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TRD0KZ	Replacement of Urethra with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TRD47Z	Replacement of Urethra with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TRD4JZ	Replacement of Urethra with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TRD4KZ	Replacement of Urethra with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TRD77Z	Replacement of Urethra with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TRD7JZ	Replacement of Urethra with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TRD7KZ	Replacement of Urethra with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TRD87Z	Replacement of Urethra with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TRD8JZ	Replacement of Urethra with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TRD8KZ	Replacement of Urethra with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TRDX7Z	Replacement of Urethra with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0TRDXJZ	Replacement of Urethra with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0TRDXKZ	Replacement of Urethra with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0TS00ZZ	Reposition Right Kidney, Open Approach	PX	ICD-10-PCS
0TS04ZZ	Reposition Right Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TS10ZZ	Reposition Left Kidney, Open Approach	PX	ICD-10-PCS
0TS14ZZ	Reposition Left Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TS20ZZ	Reposition Bilateral Kidneys, Open Approach	PX	ICD-10-PCS
0TS24ZZ	Reposition Bilateral Kidneys, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TS30ZZ	Reposition Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TS34ZZ	Reposition Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TS40ZZ	Reposition Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TS44ZZ	Reposition Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TS60ZZ	Reposition Right Ureter, Open Approach	PX	ICD-10-PCS
0TS64ZZ	Reposition Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TS70ZZ	Reposition Left Ureter, Open Approach	PX	ICD-10-PCS
0TS74ZZ	Reposition Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TS80ZZ	Reposition Bilateral Ureters, Open Approach	PX	ICD-10-PCS
0TS84ZZ	Reposition Bilateral Ureters, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TSB0ZZ	Reposition Bladder, Open Approach	PX	ICD-10-PCS
0TSB4ZZ	Reposition Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TSC0ZZ	Reposition Bladder Neck, Open Approach	PX	ICD-10-PCS
0TSC4ZZ	Reposition Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TSD0ZZ	Reposition Urethra, Open Approach	PX	ICD-10-PCS
0TSD4ZZ	Reposition Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TT00ZZ	Resection of Right Kidney, Open Approach	PX	ICD-10-PCS
0TT04ZG	Resection of right kidney, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0TT04ZZ	Resection of Right Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TT10ZZ	Resection of Left Kidney, Open Approach	PX	ICD-10-PCS
0TT14ZG	Resection of left kidney, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0TT14ZZ	Resection of Left Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TT20ZZ	Resection of Bilateral Kidneys, Open Approach	PX	ICD-10-PCS
0TT24ZG	Resection of bilateral kidneys, percutaneous endoscopic approach, hand-assisted	PX	ICD-10-PCS
0TT24ZZ	Resection of Bilateral Kidneys, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TT30ZZ	Resection of Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TT34ZZ	Resection of Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TT37ZZ	Resection of Right Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TT38ZZ	Resection of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TT40ZZ	Resection of Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TT44ZZ	Resection of Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TT47ZZ	Resection of Left Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TT48ZZ	Resection of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TT60ZZ	Resection of Right Ureter, Open Approach	PX	ICD-10-PCS
0TT64ZZ	Resection of Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TT67ZZ	Resection of Right Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TT68ZZ	Resection of Right Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TT70ZZ	Resection of Left Ureter, Open Approach	PX	ICD-10-PCS
0TT74ZZ	Resection of Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TT77ZZ	Resection of Left Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TT78ZZ	Resection of Left Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TTB0ZZ	Resection of Bladder, Open Approach	PX	ICD-10-PCS
0TTB4ZZ	Resection of Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TTB7ZZ	Resection of Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TTB8ZZ	Resection of Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TTC0ZZ	Resection of Bladder Neck, Open Approach	PX	ICD-10-PCS
0TTC4ZZ	Resection of Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TTC7ZZ	Resection of Bladder Neck, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TTC8ZZ	Resection of Bladder Neck, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TTD0ZZ	Resection of Urethra, Open Approach	PX	ICD-10-PCS
0TTD4ZZ	Resection of Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU307Z	Supplement Right Kidney Pelvis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TU30JZ	Supplement Right Kidney Pelvis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TU30KZ	Supplement Right Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TU347Z	Supplement Right Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU34JZ	Supplement Right Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU34KZ	Supplement Right Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU377Z	Supplement Right Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU37JZ	Supplement Right Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU37KZ	Supplement Right Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU387Z	Supplement Right Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU38JZ	Supplement Right Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU38KZ	Supplement Right Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU407Z	Supplement Left Kidney Pelvis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TU40JZ	Supplement Left Kidney Pelvis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TU40KZ	Supplement Left Kidney Pelvis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TU447Z	Supplement Left Kidney Pelvis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU44JZ	Supplement Left Kidney Pelvis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU44KZ	Supplement Left Kidney Pelvis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU477Z	Supplement Left Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU47JZ	Supplement Left Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU47KZ	Supplement Left Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU487Z	Supplement Left Kidney Pelvis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU48JZ	Supplement Left Kidney Pelvis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU48KZ	Supplement Left Kidney Pelvis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU607Z	Supplement Right Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TU60JZ	Supplement Right Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TU60KZ	Supplement Right Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TU647Z	Supplement Right Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU64JZ	Supplement Right Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU64KZ	Supplement Right Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU677Z	Supplement Right Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU67JZ	Supplement Right Ureter with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU67KZ	Supplement Right Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU687Z	Supplement Right Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU68JZ	Supplement Right Ureter with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU68KZ	Supplement Right Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU707Z	Supplement Left Ureter with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TU70JZ	Supplement Left Ureter with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TU70KZ	Supplement Left Ureter with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TU747Z	Supplement Left Ureter with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU74JZ	Supplement Left Ureter with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU74KZ	Supplement Left Ureter with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TU777Z	Supplement Left Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU77JZ	Supplement Left Ureter with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU77KZ	Supplement Left Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TU787Z	Supplement Left Ureter with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU78JZ	Supplement Left Ureter with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TU78KZ	Supplement Left Ureter with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TUB07Z	Supplement Bladder with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TUB0JZ	Supplement Bladder with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TUB0KZ	Supplement Bladder with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TUB47Z	Supplement Bladder with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TUB4JZ	Supplement Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TUB4KZ	Supplement Bladder with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TUB77Z	Supplement Bladder with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TUB7JZ	Supplement Bladder with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TUB7KZ	Supplement Bladder with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TUB87Z	Supplement Bladder with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TUB8JZ	Supplement Bladder with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TUB8KZ	Supplement Bladder with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TUC07Z	Supplement Bladder Neck with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TUC0JZ	Supplement Bladder Neck with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TUC0KZ	Supplement Bladder Neck with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TUC47Z	Supplement Bladder Neck with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TUC4JZ	Supplement Bladder Neck with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TUC4KZ	Supplement Bladder Neck with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TUC77Z	Supplement Bladder Neck with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TUC7JZ	Supplement Bladder Neck with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TUC7KZ	Supplement Bladder Neck with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TUC87Z	Supplement Bladder Neck with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TUC8JZ	Supplement Bladder Neck with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TUC8KZ	Supplement Bladder Neck with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TUD07Z	Supplement Urethra with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TUD0JZ	Supplement Urethra with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0TUD0KZ	Supplement Urethra with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0TUD47Z	Supplement Urethra with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TUD4JZ	Supplement Urethra with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TUD4KZ	Supplement Urethra with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TUD77Z	Supplement Urethra with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TUD7JZ	Supplement Urethra with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TUD7KZ	Supplement Urethra with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TUD87Z	Supplement Urethra with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TUD8JZ	Supplement Urethra with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TUD8KZ	Supplement Urethra with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TUDX7Z	Supplement Urethra with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0TUDXJZ	Supplement Urethra with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0TUDXKZ	Supplement Urethra with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0TV30CZ	Restriction of Right Kidney Pelvis with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TV30DZ	Restriction of Right Kidney Pelvis with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TV30ZZ	Restriction of Right Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TV33CZ	Restriction of Right Kidney Pelvis with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TV33DZ	Restriction of Right Kidney Pelvis with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TV33ZZ	Restriction of Right Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS
0TV34CZ	Restriction of Right Kidney Pelvis with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV34DZ	Restriction of Right Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV34ZZ	Restriction of Right Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV37DZ	Restriction of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TV37ZZ	Restriction of Right Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TV38DZ	Restriction of Right Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TV38ZZ	Restriction of Right Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TV40CZ	Restriction of Left Kidney Pelvis with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TV40DZ	Restriction of Left Kidney Pelvis with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TV40ZZ	Restriction of Left Kidney Pelvis, Open Approach	PX	ICD-10-PCS
0TV43CZ	Restriction of Left Kidney Pelvis with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TV43DZ	Restriction of Left Kidney Pelvis with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TV43ZZ	Restriction of Left Kidney Pelvis, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TV44CZ	Restriction of Left Kidney Pelvis with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV44DZ	Restriction of Left Kidney Pelvis with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV44ZZ	Restriction of Left Kidney Pelvis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV47DZ	Restriction of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TV47ZZ	Restriction of Left Kidney Pelvis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TV48DZ	Restriction of Left Kidney Pelvis with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TV48ZZ	Restriction of Left Kidney Pelvis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TV60CZ	Restriction of Right Ureter with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TV60DZ	Restriction of Right Ureter with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TV60ZZ	Restriction of Right Ureter, Open Approach	PX	ICD-10-PCS
0TV63CZ	Restriction of Right Ureter with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TV63DZ	Restriction of Right Ureter with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TV63ZZ	Restriction of Right Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TV64CZ	Restriction of Right Ureter with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV64DZ	Restriction of Right Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV64ZZ	Restriction of Right Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV67DZ	Restriction of Right Ureter with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TV67ZZ	Restriction of Right Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TV68DZ	Restriction of Right Ureter with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TV68ZZ	Restriction of Right Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TV70CZ	Restriction of Left Ureter with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TV70DZ	Restriction of Left Ureter with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TV70ZZ	Restriction of Left Ureter, Open Approach	PX	ICD-10-PCS
0TV73CZ	Restriction of Left Ureter with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TV73DZ	Restriction of Left Ureter with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TV73ZZ	Restriction of Left Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TV74CZ	Restriction of Left Ureter with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV74DZ	Restriction of Left Ureter with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV74ZZ	Restriction of Left Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TV77DZ	Restriction of Left Ureter with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TV77ZZ	Restriction of Left Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TV78DZ	Restriction of Left Ureter with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TV78ZZ	Restriction of Left Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TVB0CZ	Restriction of Bladder with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TVB0DZ	Restriction of Bladder with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TVB0ZZ	Restriction of Bladder, Open Approach	PX	ICD-10-PCS
0TVB3CZ	Restriction of Bladder with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TVB3DZ	Restriction of Bladder with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TVB3ZZ	Restriction of Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TVB4CZ	Restriction of Bladder with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TVB4DZ	Restriction of Bladder with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TVB4ZZ	Restriction of Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TVB7DZ	Restriction of Bladder with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TVB7ZZ	Restriction of Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TVB8DZ	Restriction of Bladder with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TVB8ZZ	Restriction of Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TVC0CZ	Restriction of Bladder Neck with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TVC0DZ	Restriction of Bladder Neck with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TVC0ZZ	Restriction of Bladder Neck, Open Approach	PX	ICD-10-PCS
0TVC3CZ	Restriction of Bladder Neck with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TVC3DZ	Restriction of Bladder Neck with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TVC3ZZ	Restriction of Bladder Neck, Percutaneous Approach	PX	ICD-10-PCS
0TVC4CZ	Restriction of Bladder Neck with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TVC4DZ	Restriction of Bladder Neck with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TVC4ZZ	Restriction of Bladder Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TVC7DZ	Restriction of Bladder Neck with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TVC7ZZ	Restriction of Bladder Neck, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TVC8DZ	Restriction of Bladder Neck with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TVC8ZZ	Restriction of Bladder Neck, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TVD0CZ	Restriction of Urethra with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0TVD0DZ	Restriction of Urethra with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0TVD0ZZ	Restriction of Urethra, Open Approach	PX	ICD-10-PCS
0TVD3CZ	Restriction of Urethra with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TVD3DZ	Restriction of Urethra with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0TVD3ZZ	Restriction of Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TVD4CZ	Restriction of Urethra with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TVD4DZ	Restriction of Urethra with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TVD4ZZ	Restriction of Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TVD7DZ	Restriction of Urethra with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TVD7ZZ	Restriction of Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TVD8DZ	Restriction of Urethra with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TVD8ZZ	Restriction of Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TVDXZZ	Restriction of Urethra, External Approach	PX	ICD-10-PCS
0TW500Z	Revision of Drainage Device in Kidney, Open Approach	PX	ICD-10-PCS
0TW502Z	Revision of Monitoring Device in Kidney, Open Approach	PX	ICD-10-PCS
0TW503Z	Revision of Infusion Device in Kidney, Open Approach	PX	ICD-10-PCS
0TW507Z	Revision of Autologous Tissue Substitute in Kidney, Open Approach	PX	ICD-10-PCS
0TW50CZ	Revision of Extraluminal Device in Kidney, Open Approach	PX	ICD-10-PCS
0TW50DZ	Revision of Intraluminal Device in Kidney, Open Approach	PX	ICD-10-PCS
0TW50JZ	Revision of Synthetic Substitute in Kidney, Open Approach	PX	ICD-10-PCS
0TW50KZ	Revision of Nonautologous Tissue Substitute in Kidney, Open Approach	PX	ICD-10-PCS
0TW50YZ	Revision of Other Device in Kidney, Open Approach	PX	ICD-10-PCS
0TW530Z	Revision of Drainage Device in Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TW532Z	Revision of Monitoring Device in Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TW533Z	Revision of Infusion Device in Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TW537Z	Revision of Autologous Tissue Substitute in Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TW53CZ	Revision of Extraluminal Device in Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TW53DZ	Revision of Intraluminal Device in Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TW53JZ	Revision of Synthetic Substitute in Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TW53KZ	Revision of Nonautologous Tissue Substitute in Kidney, Percutaneous Approach	PX	ICD-10-PCS
0TW540Z	Revision of Drainage Device in Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW542Z	Revision of Monitoring Device in Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW543Z	Revision of Infusion Device in Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW547Z	Revision of Autologous Tissue Substitute in Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW54CZ	Revision of Extraluminal Device in Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW54DZ	Revision of Intraluminal Device in Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW54JZ	Revision of Synthetic Substitute in Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW54KZ	Revision of Nonautologous Tissue Substitute in Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW54YZ	Revision of Other Device in Kidney, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW570Z	Revision of Drainage Device in Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW572Z	Revision of Monitoring Device in Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW573Z	Revision of Infusion Device in Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW577Z	Revision of Autologous Tissue Substitute in Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW57CZ	Revision of Extraluminal Device in Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW57DZ	Revision of Intraluminal Device in Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW57JZ	Revision of Synthetic Substitute in Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW57KZ	Revision of Nonautologous Tissue Substitute in Kidney, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW580Z	Revision of Drainage Device in Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TW582Z	Revision of Monitoring Device in Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW583Z	Revision of Infusion Device in Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW587Z	Revision of Autologous Tissue Substitute in Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW58CZ	Revision of Extraluminal Device in Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW58DZ	Revision of Intraluminal Device in Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW58JZ	Revision of Synthetic Substitute in Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW58KZ	Revision of Nonautologous Tissue Substitute in Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW58YZ	Revision of Other Device in Kidney, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW900Z	Revision of Drainage Device in Ureter, Open Approach	PX	ICD-10-PCS
0TW902Z	Revision of Monitoring Device in Ureter, Open Approach	PX	ICD-10-PCS
0TW903Z	Revision of Infusion Device in Ureter, Open Approach	PX	ICD-10-PCS
0TW907Z	Revision of Autologous Tissue Substitute in Ureter, Open Approach	PX	ICD-10-PCS
0TW90CZ	Revision of Extraluminal Device in Ureter, Open Approach	PX	ICD-10-PCS
0TW90DZ	Revision of Intraluminal Device in Ureter, Open Approach	PX	ICD-10-PCS
0TW90JZ	Revision of Synthetic Substitute in Ureter, Open Approach	PX	ICD-10-PCS
0TW90KZ	Revision of Nonautologous Tissue Substitute in Ureter, Open Approach	PX	ICD-10-PCS
0TW90MZ	Revision of Stimulator Lead in Ureter, Open Approach	PX	ICD-10-PCS
0TW90YZ	Revision of Other Device in Ureter, Open Approach	PX	ICD-10-PCS
0TW930Z	Revision of Drainage Device in Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TW932Z	Revision of Monitoring Device in Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TW933Z	Revision of Infusion Device in Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TW937Z	Revision of Autologous Tissue Substitute in Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TW93CZ	Revision of Extraluminal Device in Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TW93DZ	Revision of Intraluminal Device in Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TW93JZ	Revision of Synthetic Substitute in Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TW93KZ	Revision of Nonautologous Tissue Substitute in Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TW93MZ	Revision of Stimulator Lead in Ureter, Percutaneous Approach	PX	ICD-10-PCS
0TW940Z	Revision of Drainage Device in Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW942Z	Revision of Monitoring Device in Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW943Z	Revision of Infusion Device in Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW947Z	Revision of Autologous Tissue Substitute in Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW94CZ	Revision of Extraluminal Device in Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW94DZ	Revision of Intraluminal Device in Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW94JZ	Revision of Synthetic Substitute in Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW94KZ	Revision of Nonautologous Tissue Substitute in Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW94MZ	Revision of Stimulator Lead in Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TW94YZ	Revision of Other Device in Ureter, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TW970Z	Revision of Drainage Device in Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW972Z	Revision of Monitoring Device in Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW973Z	Revision of Infusion Device in Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW977Z	Revision of Autologous Tissue Substitute in Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW97CZ	Revision of Extraluminal Device in Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW97DZ	Revision of Intraluminal Device in Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW97JZ	Revision of Synthetic Substitute in Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW97KZ	Revision of Nonautologous Tissue Substitute in Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW97MZ	Revision of Stimulator Lead in Ureter, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TW980Z	Revision of Drainage Device in Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW982Z	Revision of Monitoring Device in Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW983Z	Revision of Infusion Device in Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW987Z	Revision of Autologous Tissue Substitute in Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW98CZ	Revision of Extraluminal Device in Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW98DZ	Revision of Intraluminal Device in Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW98JZ	Revision of Synthetic Substitute in Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW98KZ	Revision of Nonautologous Tissue Substitute in Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW98MZ	Revision of Stimulator Lead in Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TW98YZ	Revision of Other Device in Ureter, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWB00Z	Revision of Drainage Device in Bladder, Open Approach	PX	ICD-10-PCS
0TWB02Z	Revision of Monitoring Device in Bladder, Open Approach	PX	ICD-10-PCS
0TWB03Z	Revision of Infusion Device in Bladder, Open Approach	PX	ICD-10-PCS
0TWB07Z	Revision of Autologous Tissue Substitute in Bladder, Open Approach	PX	ICD-10-PCS
0TWB0CZ	Revision of Extraluminal Device in Bladder, Open Approach	PX	ICD-10-PCS
0TWB0DZ	Revision of Intraluminal Device in Bladder, Open Approach	PX	ICD-10-PCS
0TWB0JZ	Revision of Synthetic Substitute in Bladder, Open Approach	PX	ICD-10-PCS
0TWB0KZ	Revision of Nonautologous Tissue Substitute in Bladder, Open Approach	PX	ICD-10-PCS
0TWB0LZ	Revision of Artificial Sphincter in Bladder, Open Approach	PX	ICD-10-PCS
0TWB0MZ	Revision of Stimulator Lead in Bladder, Open Approach	PX	ICD-10-PCS
0TWB0YZ	Revision of Other Device in Bladder, Open Approach	PX	ICD-10-PCS
0TWB30Z	Revision of Drainage Device in Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TWB32Z	Revision of Monitoring Device in Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TWB33Z	Revision of Infusion Device in Bladder, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TWB37Z	Revision of Autologous Tissue Substitute in Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TWB3CZ	Revision of Extraluminal Device in Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TWB3DZ	Revision of Intraluminal Device in Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TWB3JZ	Revision of Synthetic Substitute in Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TWB3KZ	Revision of Nonautologous Tissue Substitute in Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TWB3LZ	Revision of Artificial Sphincter in Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TWB3MZ	Revision of Stimulator Lead in Bladder, Percutaneous Approach	PX	ICD-10-PCS
0TWB40Z	Revision of Drainage Device in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB42Z	Revision of Monitoring Device in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB43Z	Revision of Infusion Device in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB47Z	Revision of Autologous Tissue Substitute in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB4CZ	Revision of Extraluminal Device in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB4DZ	Revision of Intraluminal Device in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB4JZ	Revision of Synthetic Substitute in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB4KZ	Revision of Nonautologous Tissue Substitute in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB4LZ	Revision of Artificial Sphincter in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB4MZ	Revision of Stimulator Lead in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB4YZ	Revision of Other Device in Bladder, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWB77Z	Revision of Autologous Tissue Substitute in Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWB7CZ	Revision of Extraluminal Device in Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWB7DZ	Revision of Intraluminal Device in Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWB7JZ	Revision of Synthetic Substitute in Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWB7KZ	Revision of Nonautologous Tissue Substitute in Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWB7LZ	Revision of Artificial Sphincter in Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWB7MZ	Revision of Stimulator Lead in Bladder, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWB87Z	Revision of Autologous Tissue Substitute in Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWB8CZ	Revision of Extraluminal Device in Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWB8DZ	Revision of Intraluminal Device in Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWB8JZ	Revision of Synthetic Substitute in Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWB8KZ	Revision of Nonautologous Tissue Substitute in Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWB8LZ	Revision of Artificial Sphincter in Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWB8MZ	Revision of Stimulator Lead in Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWB8YZ	Revision of Other Device in Bladder, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TWD00Z	Revision of Drainage Device in Urethra, Open Approach	PX	ICD-10-PCS
0TWD02Z	Revision of Monitoring Device in Urethra, Open Approach	PX	ICD-10-PCS
0TWD03Z	Revision of Infusion Device in Urethra, Open Approach	PX	ICD-10-PCS
0TWD07Z	Revision of Autologous Tissue Substitute in Urethra, Open Approach	PX	ICD-10-PCS
0TWD0CZ	Revision of Extraluminal Device in Urethra, Open Approach	PX	ICD-10-PCS
0TWD0DZ	Revision of Intraluminal Device in Urethra, Open Approach	PX	ICD-10-PCS
0TWD0JZ	Revision of Synthetic Substitute in Urethra, Open Approach	PX	ICD-10-PCS
0TWD0KZ	Revision of Nonautologous Tissue Substitute in Urethra, Open Approach	PX	ICD-10-PCS
0TWD0LZ	Revision of Artificial Sphincter in Urethra, Open Approach	PX	ICD-10-PCS
0TWD0YZ	Revision of Other Device in Urethra, Open Approach	PX	ICD-10-PCS
0TWD30Z	Revision of Drainage Device in Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TWD32Z	Revision of Monitoring Device in Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TWD33Z	Revision of Infusion Device in Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TWD37Z	Revision of Autologous Tissue Substitute in Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TWD3CZ	Revision of Extraluminal Device in Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TWD3DZ	Revision of Intraluminal Device in Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TWD3JZ	Revision of Synthetic Substitute in Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TWD3KZ	Revision of Nonautologous Tissue Substitute in Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TWD3LZ	Revision of Artificial Sphincter in Urethra, Percutaneous Approach	PX	ICD-10-PCS
0TWD40Z	Revision of Drainage Device in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWD42Z	Revision of Monitoring Device in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWD43Z	Revision of Infusion Device in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWD47Z	Revision of Autologous Tissue Substitute in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWD4CZ	Revision of Extraluminal Device in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWD4DZ	Revision of Intraluminal Device in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWD4JZ	Revision of Synthetic Substitute in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWD4KZ	Revision of Nonautologous Tissue Substitute in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWD4LZ	Revision of Artificial Sphincter in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWD4YZ	Revision of Other Device in Urethra, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0TWD72Z	Revision of Monitoring Device in Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWD73Z	Revision of Infusion Device in Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWD77Z	Revision of Autologous Tissue Substitute in Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWD7CZ	Revision of Extraluminal Device in Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWD7DZ	Revision of Intraluminal Device in Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWD7JZ	Revision of Synthetic Substitute in Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWD7KZ	Revision of Nonautologous Tissue Substitute in Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWD7LZ	Revision of Artificial Sphincter in Urethra, Via Natural or Artificial Opening	PX	ICD-10-PCS
0TWD82Z	Revision of Monitoring Device in Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0TWD83Z	Revision of Infusion Device in Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWD87Z	Revision of Autologous Tissue Substitute in Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWD8CZ	Revision of Extraluminal Device in Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWD8DZ	Revision of Intraluminal Device in Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWD8JZ	Revision of Synthetic Substitute in Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWD8KZ	Revision of Nonautologous Tissue Substitute in Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TWD8LZ	Revision of Artificial Sphincter in Urethra, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0TY00Z0	Transplantation of Right Kidney, Allogeneic, Open Approach	PX	ICD-10-PCS
0TY00Z1	Transplantation of Right Kidney, Syngeneic, Open Approach	PX	ICD-10-PCS
0TY00Z2	Transplantation of Right Kidney, Zooplastic, Open Approach	PX	ICD-10-PCS
0TY10Z0	Transplantation of Left Kidney, Allogeneic, Open Approach	PX	ICD-10-PCS
0TY10Z1	Transplantation of Left Kidney, Syngeneic, Open Approach	PX	ICD-10-PCS
0TY10Z2	Transplantation of Left Kidney, Zooplastic, Open Approach	PX	ICD-10-PCS
0U15075	Bypass Right Fallopian Tube to Right Fallopian Tube with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U15076	Bypass Right Fallopian Tube to Left Fallopian Tube with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U15079	Bypass Right Fallopian Tube to Uterus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U150J5	Bypass Right Fallopian Tube to Right Fallopian Tube with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0U150J6	Bypass Right Fallopian Tube to Left Fallopian Tube with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0U150J9	Bypass Right Fallopian Tube to Uterus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0U150K5	Bypass Right Fallopian Tube to Right Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U150K6	Bypass Right Fallopian Tube to Left Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U150K9	Bypass Right Fallopian Tube to Uterus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U150Z5	Bypass Right Fallopian Tube to Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0U150Z6	Bypass Right Fallopian Tube to Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0U150Z9	Bypass Right Fallopian Tube to Uterus, Open Approach	PX	ICD-10-PCS
0U15475	Bypass Right Fallopian Tube to Right Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U15476	Bypass Right Fallopian Tube to Left Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0U15479	Bypass Right Fallopian Tube to Uterus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U154J5	Bypass Right Fallopian Tube to Right Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U154J6	Bypass Right Fallopian Tube to Left Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U154J9	Bypass Right Fallopian Tube to Uterus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U154K5	Bypass Right Fallopian Tube to Right Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U154K6	Bypass Right Fallopian Tube to Left Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U154K9	Bypass Right Fallopian Tube to Uterus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U154Z5	Bypass Right Fallopian Tube to Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U154Z6	Bypass Right Fallopian Tube to Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U154Z9	Bypass Right Fallopian Tube to Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U16075	Bypass Left Fallopian Tube to Right Fallopian Tube with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U16076	Bypass Left Fallopian Tube to Left Fallopian Tube with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U16079	Bypass Left Fallopian Tube to Uterus with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U160J5	Bypass Left Fallopian Tube to Right Fallopian Tube with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0U160J6	Bypass Left Fallopian Tube to Left Fallopian Tube with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0U160J9	Bypass Left Fallopian Tube to Uterus with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0U160K5	Bypass Left Fallopian Tube to Right Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U160K6	Bypass Left Fallopian Tube to Left Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U160K9	Bypass Left Fallopian Tube to Uterus with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0U160Z5	Bypass Left Fallopian Tube to Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0U160Z6	Bypass Left Fallopian Tube to Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0U160Z9	Bypass Left Fallopian Tube to Uterus, Open Approach	PX	ICD-10-PCS
0U16475	Bypass Left Fallopian Tube to Right Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U16476	Bypass Left Fallopian Tube to Left Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U16479	Bypass Left Fallopian Tube to Uterus with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0U164J5	Bypass Left Fallopian Tube to Right Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U164J6	Bypass Left Fallopian Tube to Left Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U164J9	Bypass Left Fallopian Tube to Uterus with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U164K5	Bypass Left Fallopian Tube to Right Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U164K6	Bypass Left Fallopian Tube to Left Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U164K9	Bypass Left Fallopian Tube to Uterus with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U164Z5	Bypass Left Fallopian Tube to Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U164Z6	Bypass Left Fallopian Tube to Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U164Z9	Bypass Left Fallopian Tube to Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U500ZZ	Destruction of Right Ovary, Open Approach	PX	ICD-10-PCS
0U503ZZ	Destruction of Right Ovary, Percutaneous Approach	PX	ICD-10-PCS
0U504ZZ	Destruction of Right Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U508ZZ	Destruction of Right Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U510ZZ	Destruction of Left Ovary, Open Approach	PX	ICD-10-PCS
0U513ZZ	Destruction of Left Ovary, Percutaneous Approach	PX	ICD-10-PCS
0U514ZZ	Destruction of Left Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U518ZZ	Destruction of Left Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U520ZZ	Destruction of Bilateral Ovaries, Open Approach	PX	ICD-10-PCS
0U523ZZ	Destruction of Bilateral Ovaries, Percutaneous Approach	PX	ICD-10-PCS
0U524ZZ	Destruction of Bilateral Ovaries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U528ZZ	Destruction of Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U540ZZ	Destruction of Uterine Supporting Structure, Open Approach	PX	ICD-10-PCS
0U543ZZ	Destruction of Uterine Supporting Structure, Percutaneous Approach	PX	ICD-10-PCS
0U544ZZ	Destruction of Uterine Supporting Structure, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U548ZZ	Destruction of Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U550ZZ	Destruction of Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0U553ZZ	Destruction of Right Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0U554ZZ	Destruction of Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U557ZZ	Destruction of Right Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U558ZZ	Destruction of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U560ZZ	Destruction of Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0U563ZZ	Destruction of Left Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0U564ZZ	Destruction of Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U567ZZ	Destruction of Left Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0U568ZZ	Destruction of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U570ZZ	Destruction of Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0U573ZZ	Destruction of Bilateral Fallopian Tubes, Percutaneous Approach	PX	ICD-10-PCS
0U574ZZ	Destruction of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U577ZZ	Destruction of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U578ZZ	Destruction of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U590ZZ	Destruction of Uterus, Open Approach	PX	ICD-10-PCS
0U593ZZ	Destruction of Uterus, Percutaneous Approach	PX	ICD-10-PCS
0U594ZZ	Destruction of Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U597ZZ	Destruction of Uterus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U598ZZ	Destruction of Uterus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U5B0ZZ	Destruction of Endometrium, Open Approach	PX	ICD-10-PCS
0U5B3ZZ	Destruction of Endometrium, Percutaneous Approach	PX	ICD-10-PCS
0U5B4ZZ	Destruction of Endometrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U5B7ZZ	Destruction of Endometrium, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U5B8ZZ	Destruction of Endometrium, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U5C0ZZ	Destruction of Cervix, Open Approach	PX	ICD-10-PCS
0U5C3ZZ	Destruction of Cervix, Percutaneous Approach	PX	ICD-10-PCS
0U5C4ZZ	Destruction of Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U5C7ZZ	Destruction of Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U5C8ZZ	Destruction of Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U5F0ZZ	Destruction of Cul-de-sac, Open Approach	PX	ICD-10-PCS
0U5F3ZZ	Destruction of Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0U5F4ZZ	Destruction of Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U5F7ZZ	Destruction of Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U5F8ZZ	Destruction of Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U5G0ZZ	Destruction of Vagina, Open Approach	PX	ICD-10-PCS
0U5G3ZZ	Destruction of Vagina, Percutaneous Approach	PX	ICD-10-PCS
0U5G4ZZ	Destruction of Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U5G7ZZ	Destruction of Vagina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U5G8ZZ	Destruction of Vagina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U5GXZZ	Destruction of Vagina, External Approach	PX	ICD-10-PCS
0U5J0ZZ	Destruction of Clitoris, Open Approach	PX	ICD-10-PCS
0U5JXZZ	Destruction of Clitoris, External Approach	PX	ICD-10-PCS
0U5K0ZZ	Destruction of Hymen, Open Approach	PX	ICD-10-PCS
0U5K3ZZ	Destruction of Hymen, Percutaneous Approach	PX	ICD-10-PCS
0U5K4ZZ	Destruction of Hymen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U5K7ZZ	Destruction of Hymen, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U5K8ZZ	Destruction of Hymen, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U5KXZZ	Destruction of Hymen, External Approach	PX	ICD-10-PCS
0U5L0ZZ	Destruction of Vestibular Gland, Open Approach	PX	ICD-10-PCS
0U5LXZZ	Destruction of Vestibular Gland, External Approach	PX	ICD-10-PCS
0U5M0ZZ	Destruction of Vulva, Open Approach	PX	ICD-10-PCS
0U5MXZZ	Destruction of Vulva, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0U750DZ	Dilation of Right Fallopian Tube with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0U750ZZ	Dilation of Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0U753DZ	Dilation of Right Fallopian Tube with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0U753ZZ	Dilation of Right Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0U754DZ	Dilation of Right Fallopian Tube with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U754ZZ	Dilation of Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U757DZ	Dilation of Right Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U757ZZ	Dilation of Right Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U758DZ	Dilation of Right Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U758ZZ	Dilation of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U760DZ	Dilation of Left Fallopian Tube with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0U760ZZ	Dilation of Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0U763DZ	Dilation of Left Fallopian Tube with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0U763ZZ	Dilation of Left Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0U764DZ	Dilation of Left Fallopian Tube with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U764ZZ	Dilation of Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U767DZ	Dilation of Left Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U767ZZ	Dilation of Left Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U768DZ	Dilation of Left Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U768ZZ	Dilation of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U770DZ	Dilation of Bilateral Fallopian Tubes with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0U770ZZ	Dilation of Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0U773DZ	Dilation of Bilateral Fallopian Tubes with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0U773ZZ	Dilation of Bilateral Fallopian Tubes, Percutaneous Approach	PX	ICD-10-PCS
0U774DZ	Dilation of Bilateral Fallopian Tubes with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U774ZZ	Dilation of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U777DZ	Dilation of Bilateral Fallopian Tubes with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U777ZZ	Dilation of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U778DZ	Dilation of Bilateral Fallopian Tubes with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U778ZZ	Dilation of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U790DZ	Dilation of Uterus with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0U790ZZ	Dilation of Uterus, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0U793DZ	Dilation of Uterus with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0U793ZZ	Dilation of Uterus, Percutaneous Approach	PX	ICD-10-PCS
0U794DZ	Dilation of Uterus with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U794ZZ	Dilation of Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U797DZ	Dilation of Uterus with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U797ZZ	Dilation of Uterus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U798DZ	Dilation of Uterus with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U798ZZ	Dilation of Uterus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U7C0DZ	Dilation of Cervix with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0U7C0ZZ	Dilation of Cervix, Open Approach	PX	ICD-10-PCS
0U7C4DZ	Dilation of Cervix with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U7C4ZZ	Dilation of Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U7G0DZ	Dilation of Vagina with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0U7G0ZZ	Dilation of Vagina, Open Approach	PX	ICD-10-PCS
0U7G3DZ	Dilation of Vagina with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0U7G3ZZ	Dilation of Vagina, Percutaneous Approach	PX	ICD-10-PCS
0U7G4DZ	Dilation of Vagina with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U7G4ZZ	Dilation of Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U7K0DZ	Dilation of Hymen with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0U7K0ZZ	Dilation of Hymen, Open Approach	PX	ICD-10-PCS
0U7K3DZ	Dilation of Hymen with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0U7K3ZZ	Dilation of Hymen, Percutaneous Approach	PX	ICD-10-PCS
0U7K4DZ	Dilation of Hymen with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U7K4ZZ	Dilation of Hymen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U7K7DZ	Dilation of Hymen with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U7K7ZZ	Dilation of Hymen, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U7K8DZ	Dilation of Hymen with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U7K8ZZ	Dilation of Hymen, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U7KXDZ	Dilation of Hymen with Intraluminal Device, External Approach	PX	ICD-10-PCS
0U7KXZZ	Dilation of Hymen, External Approach	PX	ICD-10-PCS
0U800ZZ	Division of Right Ovary, Open Approach	PX	ICD-10-PCS
0U803ZZ	Division of Right Ovary, Percutaneous Approach	PX	ICD-10-PCS
0U804ZZ	Division of Right Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U810ZZ	Division of Left Ovary, Open Approach	PX	ICD-10-PCS
0U813ZZ	Division of Left Ovary, Percutaneous Approach	PX	ICD-10-PCS
0U814ZZ	Division of Left Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U820ZZ	Division of Bilateral Ovaries, Open Approach	PX	ICD-10-PCS
0U823ZZ	Division of Bilateral Ovaries, Percutaneous Approach	PX	ICD-10-PCS
0U824ZZ	Division of Bilateral Ovaries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U840ZZ	Division of Uterine Supporting Structure, Open Approach	PX	ICD-10-PCS
0U843ZZ	Division of Uterine Supporting Structure, Percutaneous Approach	PX	ICD-10-PCS
0U844ZZ	Division of Uterine Supporting Structure, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9000Z	Drainage of Right Ovary with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0U900ZZ	Drainage of Right Ovary, Open Approach	PX	ICD-10-PCS
0U9040Z	Drainage of Right Ovary with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U904ZZ	Drainage of Right Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9080Z	Drainage of Right Ovary with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U908ZZ	Drainage of Right Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U90XZZ	Drainage of Right Ovary, External Approach	PX	ICD-10-PCS
0U9100Z	Drainage of Left Ovary with Drainage Device, Open Approach	PX	ICD-10-PCS
0U910ZZ	Drainage of Left Ovary, Open Approach	PX	ICD-10-PCS
0U9140Z	Drainage of Left Ovary with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U914ZZ	Drainage of Left Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9180Z	Drainage of Left Ovary with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U918ZZ	Drainage of Left Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U91XZZ	Drainage of Left Ovary, External Approach	PX	ICD-10-PCS
0U9200Z	Drainage of Bilateral Ovaries with Drainage Device, Open Approach	PX	ICD-10-PCS
0U920ZZ	Drainage of Bilateral Ovaries, Open Approach	PX	ICD-10-PCS
0U9240Z	Drainage of Bilateral Ovaries with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U924ZZ	Drainage of Bilateral Ovaries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9280Z	Drainage of Bilateral Ovaries with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U928ZZ	Drainage of Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U92XZZ	Drainage of Bilateral Ovaries, External Approach	PX	ICD-10-PCS
0U9400Z	Drainage of Uterine Supporting Structure with Drainage Device, Open Approach	PX	ICD-10-PCS
0U940ZZ	Drainage of Uterine Supporting Structure, Open Approach	PX	ICD-10-PCS
0U9440Z	Drainage of Uterine Supporting Structure with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U944ZZ	Drainage of Uterine Supporting Structure, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9480Z	Drainage of Uterine Supporting Structure with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U948ZZ	Drainage of Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9500Z	Drainage of Right Fallopian Tube with Drainage Device, Open Approach	PX	ICD-10-PCS
0U950ZZ	Drainage of Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0U9540Z	Drainage of Right Fallopian Tube with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U954ZZ	Drainage of Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9570Z	Drainage of Right Fallopian Tube with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U957ZZ	Drainage of Right Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U9580Z	Drainage of Right Fallopian Tube with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0U958ZZ	Drainage of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9600Z	Drainage of Left Fallopian Tube with Drainage Device, Open Approach	PX	ICD-10-PCS
0U960ZZ	Drainage of Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0U9640Z	Drainage of Left Fallopian Tube with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U964ZZ	Drainage of Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9670Z	Drainage of Left Fallopian Tube with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U967ZZ	Drainage of Left Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U9680Z	Drainage of Left Fallopian Tube with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U968ZZ	Drainage of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9700Z	Drainage of Bilateral Fallopian Tubes with Drainage Device, Open Approach	PX	ICD-10-PCS
0U970ZZ	Drainage of Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0U9740Z	Drainage of Bilateral Fallopian Tubes with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U974ZZ	Drainage of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9770Z	Drainage of Bilateral Fallopian Tubes with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U977ZZ	Drainage of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U9780Z	Drainage of Bilateral Fallopian Tubes with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U978ZZ	Drainage of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9900Z	Drainage of Uterus with Drainage Device, Open Approach	PX	ICD-10-PCS
0U990ZZ	Drainage of Uterus, Open Approach	PX	ICD-10-PCS
0U9940Z	Drainage of Uterus with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U994ZZ	Drainage of Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9970Z	Drainage of Uterus with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U997ZZ	Drainage of Uterus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U9980Z	Drainage of Uterus with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U998ZZ	Drainage of Uterus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9C00Z	Drainage of Cervix with Drainage Device, Open Approach	PX	ICD-10-PCS
0U9C0ZZ	Drainage of Cervix, Open Approach	PX	ICD-10-PCS
0U9C40Z	Drainage of Cervix with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9C4ZZ	Drainage of Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9C80Z	Drainage of Cervix with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9C8ZZ	Drainage of Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9F00Z	Drainage of Cul-de-sac with Drainage Device, Open Approach	PX	ICD-10-PCS
0U9F0ZZ	Drainage of Cul-de-sac, Open Approach	PX	ICD-10-PCS
0U9F40Z	Drainage of Cul-de-sac with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9F4ZZ	Drainage of Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0U9F70Z	Drainage of Cul-de-sac with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U9F7ZZ	Drainage of Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0U9F80Z	Drainage of Cul-de-sac with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9F8ZZ	Drainage of Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9G00Z	Drainage of Vagina with Drainage Device, Open Approach	PX	ICD-10-PCS
0U9G0ZZ	Drainage of Vagina, Open Approach	PX	ICD-10-PCS
0U9G40Z	Drainage of Vagina with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9G4ZZ	Drainage of Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9G80Z	Drainage of Vagina with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9G8ZZ	Drainage of Vagina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0U9GX0Z	Drainage of Vagina with Drainage Device, External Approach	PX	ICD-10-PCS
0U9GXZZ	Drainage of Vagina, External Approach	PX	ICD-10-PCS
0U9J00Z	Drainage of Clitoris with Drainage Device, Open Approach	PX	ICD-10-PCS
0U9J0ZZ	Drainage of Clitoris, Open Approach	PX	ICD-10-PCS
0U9JX0Z	Drainage of Clitoris with Drainage Device, External Approach	PX	ICD-10-PCS
0U9JXZZ	Drainage of Clitoris, External Approach	PX	ICD-10-PCS
0U9K00Z	Drainage of Hymen with Drainage Device, Open Approach	PX	ICD-10-PCS
0U9K0ZZ	Drainage of Hymen, Open Approach	PX	ICD-10-PCS
0U9K40Z	Drainage of Hymen with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9K4ZZ	Drainage of Hymen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0U9L0ZZ	Drainage of Vestibular Gland, Open Approach	PX	ICD-10-PCS
0U9M00Z	Drainage of Vulva with Drainage Device, Open Approach	PX	ICD-10-PCS
0U9M0ZZ	Drainage of Vulva, Open Approach	PX	ICD-10-PCS
0U9MX0Z	Drainage of Vulva with Drainage Device, External Approach	PX	ICD-10-PCS
0U9MXZZ	Drainage of Vulva, External Approach	PX	ICD-10-PCS
0UB00ZZ	Excision of Right Ovary, Open Approach	PX	ICD-10-PCS
0UB03ZZ	Excision of Right Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UB04ZZ	Excision of Right Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UB07ZZ	Excision of Right Ovary, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UB08ZZ	Excision of Right Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UB10ZZ	Excision of Left Ovary, Open Approach	PX	ICD-10-PCS
0UB13ZZ	Excision of Left Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UB14ZZ	Excision of Left Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UB17ZZ	Excision of Left Ovary, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UB18ZZ	Excision of Left Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UB20ZZ	Excision of Bilateral Ovaries, Open Approach	PX	ICD-10-PCS
0UB23ZZ	Excision of Bilateral Ovaries, Percutaneous Approach	PX	ICD-10-PCS
0UB24ZZ	Excision of Bilateral Ovaries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UB27ZZ	Excision of Bilateral Ovaries, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UB28ZZ	Excision of Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UB40ZZ	Excision of Uterine Supporting Structure, Open Approach	PX	ICD-10-PCS
0UB43ZZ	Excision of Uterine Supporting Structure, Percutaneous Approach	PX	ICD-10-PCS
0UB44ZZ	Excision of Uterine Supporting Structure, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UB47ZZ	Excision of Uterine Supporting Structure, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UB48ZZ	Excision of Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UB50ZZ	Excision of Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UB53ZZ	Excision of Right Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UB54ZZ	Excision of Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UB57ZZ	Excision of Right Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UB58ZZ	Excision of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UB60ZZ	Excision of Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UB63ZZ	Excision of Left Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UB64ZZ	Excision of Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UB67ZZ	Excision of Left Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UB68ZZ	Excision of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UB70ZZ	Excision of Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0UB73ZZ	Excision of Bilateral Fallopian Tubes, Percutaneous Approach	PX	ICD-10-PCS
0UB74ZZ	Excision of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UB77ZZ	Excision of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UB78ZZ	Excision of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UB90ZZ	Excision of Uterus, Open Approach	PX	ICD-10-PCS
0UB93ZZ	Excision of Uterus, Percutaneous Approach	PX	ICD-10-PCS
0UB94ZZ	Excision of Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UB97ZZ	Excision of Uterus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UB98ZZ	Excision of Uterus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UBC0ZZ	Excision of Cervix, Open Approach	PX	ICD-10-PCS
0UBC3ZZ	Excision of Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UBC4ZZ	Excision of Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UBC7ZZ	Excision of Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UBC8ZZ	Excision of Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UBF0ZZ	Excision of Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UBF3ZZ	Excision of Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UBF4ZZ	Excision of Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UBF7ZZ	Excision of Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UBF8ZZ	Excision of Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UBG0ZZ	Excision of Vagina, Open Approach	PX	ICD-10-PCS
0UBG3ZZ	Excision of Vagina, Percutaneous Approach	PX	ICD-10-PCS
0UBG4ZZ	Excision of Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UBG7ZZ	Excision of Vagina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UBG8ZZ	Excision of Vagina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UBGXZZ	Excision of Vagina, External Approach	PX	ICD-10-PCS
0UBJ0ZZ	Excision of Clitoris, Open Approach	PX	ICD-10-PCS
0UBJXZZ	Excision of Clitoris, External Approach	PX	ICD-10-PCS
0UBK0ZZ	Excision of Hymen, Open Approach	PX	ICD-10-PCS
0UBK3ZZ	Excision of Hymen, Percutaneous Approach	PX	ICD-10-PCS
0UBK4ZZ	Excision of Hymen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UBK7ZZ	Excision of Hymen, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UBK8ZZ	Excision of Hymen, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UBKXZZ	Excision of Hymen, External Approach	PX	ICD-10-PCS
0UBL0ZZ	Excision of Vestibular Gland, Open Approach	PX	ICD-10-PCS
0UBLXZZ	Excision of Vestibular Gland, External Approach	PX	ICD-10-PCS
0UBM0ZZ	Excision of Vulva, Open Approach	PX	ICD-10-PCS
0UBMXZZ	Excision of Vulva, External Approach	PX	ICD-10-PCS
0UC00ZZ	Extirpation of Matter from Right Ovary, Open Approach	PX	ICD-10-PCS
0UC03ZZ	Extirpation of Matter from Right Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UC04ZZ	Extirpation of Matter from Right Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UC08ZZ	Extirpation of Matter from Right Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UC10ZZ	Extirpation of Matter from Left Ovary, Open Approach	PX	ICD-10-PCS
0UC13ZZ	Extirpation of Matter from Left Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UC14ZZ	Extirpation of Matter from Left Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UC18ZZ	Extirpation of Matter from Left Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UC20ZZ	Extirpation of Matter from Bilateral Ovaries, Open Approach	PX	ICD-10-PCS
0UC23ZZ	Extirpation of Matter from Bilateral Ovaries, Percutaneous Approach	PX	ICD-10-PCS
0UC24ZZ	Extirpation of Matter from Bilateral Ovaries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UC28ZZ	Extirpation of Matter from Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UC40ZZ	Extirpation of Matter from Uterine Supporting Structure, Open Approach	PX	ICD-10-PCS
0UC43ZZ	Extirpation of Matter from Uterine Supporting Structure, Percutaneous Approach	PX	ICD-10-PCS
0UC44ZZ	Extirpation of Matter from Uterine Supporting Structure, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UC48ZZ	Extirpation of Matter from Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UC50ZZ	Extirpation of Matter from Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UC53ZZ	Extirpation of Matter from Right Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UC54ZZ	Extirpation of Matter from Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UC57ZZ	Extirpation of Matter from Right Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UC58ZZ	Extirpation of Matter from Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UC60ZZ	Extirpation of Matter from Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UC63ZZ	Extirpation of Matter from Left Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UC64ZZ	Extirpation of Matter from Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UC67ZZ	Extirpation of Matter from Left Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UC68ZZ	Extirpation of Matter from Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UC70ZZ	Extirpation of Matter from Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0UC73ZZ	Extirpation of Matter from Bilateral Fallopian Tubes, Percutaneous Approach	PX	ICD-10-PCS
0UC74ZZ	Extirpation of Matter from Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UC77ZZ	Extirpation of Matter from Bilateral Fallopian Tubes, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UC78ZZ	Extirpation of Matter from Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UC90ZZ	Extirpation of Matter from Uterus, Open Approach	PX	ICD-10-PCS
0UC93ZZ	Extirpation of Matter from Uterus, Percutaneous Approach	PX	ICD-10-PCS
0UC94ZZ	Extirpation of Matter from Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UCB0ZZ	Extirpation of Matter from Endometrium, Open Approach	PX	ICD-10-PCS
0UCB3ZZ	Extirpation of Matter from Endometrium, Percutaneous Approach	PX	ICD-10-PCS
0UCB4ZZ	Extirpation of Matter from Endometrium, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UCB7ZZ	Extirpation of Matter from Endometrium, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UCB8ZZ	Extirpation of Matter from Endometrium, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UCC0ZZ	Extirpation of Matter from Cervix, Open Approach	PX	ICD-10-PCS
0UCC3ZZ	Extirpation of Matter from Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UCC4ZZ	Extirpation of Matter from Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UCC8ZZ	Extirpation of Matter from Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UCF0ZZ	Extirpation of Matter from Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UCF3ZZ	Extirpation of Matter from Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UCF4ZZ	Extirpation of Matter from Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UCF7ZZ	Extirpation of Matter from Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UCF8ZZ	Extirpation of Matter from Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UCG0ZZ	Extirpation of Matter from Vagina, Open Approach	PX	ICD-10-PCS
0UCG3ZZ	Extirpation of Matter from Vagina, Percutaneous Approach	PX	ICD-10-PCS
0UCG4ZZ	Extirpation of Matter from Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UCJ0ZZ	Extirpation of Matter from Clitoris, Open Approach	PX	ICD-10-PCS
0UCJXZZ	Extirpation of Matter from Clitoris, External Approach	PX	ICD-10-PCS
0UCK0ZZ	Extirpation of Matter from Hymen, Open Approach	PX	ICD-10-PCS
0UCK4ZZ	Extirpation of Matter from Hymen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UCL0ZZ	Extirpation of Matter from Vestibular Gland, Open Approach	PX	ICD-10-PCS
0UCLXZZ	Extirpation of Matter from Vestibular Gland, External Approach	PX	ICD-10-PCS
0UCM0ZZ	Extirpation of Matter from Vulva, Open Approach	PX	ICD-10-PCS
0UDB7ZZ	Extraction of Endometrium, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UDB8ZZ	Extraction of Endometrium, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UDN0ZZ	Extraction of Ova, Open	PX	ICD-10-PCS
0UDN3ZZ	Extraction of Ova, Percutaneous	PX	ICD-10-PCS
0UDN4ZZ	Extraction of Ova, Percutaneous Endoscopic	PX	ICD-10-PCS
0UF50ZZ	Fragmentation in Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UF53ZZ	Fragmentation in Right Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UF54ZZ	Fragmentation in Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UF57ZZ	Fragmentation in Right Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UF58ZZ	Fragmentation in Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UF60ZZ	Fragmentation in Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UF63ZZ	Fragmentation in Left Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UF64ZZ	Fragmentation in Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UF67ZZ	Fragmentation in Left Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UF68ZZ	Fragmentation in Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UF70ZZ	Fragmentation in Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0UF73ZZ	Fragmentation in Bilateral Fallopian Tubes, Percutaneous Approach	PX	ICD-10-PCS
0UF74ZZ	Fragmentation in Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UF77ZZ	Fragmentation in Bilateral Fallopian Tubes, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UF78ZZ	Fragmentation in Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UF90ZZ	Fragmentation in Uterus, Open Approach	PX	ICD-10-PCS
0UF93ZZ	Fragmentation in Uterus, Percutaneous Approach	PX	ICD-10-PCS
0UF94ZZ	Fragmentation in Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UF97ZZ	Fragmentation in Uterus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UF98ZZ	Fragmentation in Uterus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UH301Z	Insertion of Radioactive Element into Ovary, Open Approach	PX	ICD-10-PCS
0UH303Z	Insertion of Infusion Device into Ovary, Open Approach	PX	ICD-10-PCS
0UH30YZ	Insertion of Other Device into Ovary, Open Approach	PX	ICD-10-PCS
0UH341Z	Insertion of Radioactive Element into Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UH343Z	Insertion of Infusion Device into Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UH34YZ	Insertion of Other Device into Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UH803Z	Insertion of Infusion Device into Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UH80YZ	Insertion of Other Device into Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UH843Z	Insertion of Infusion Device into Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UH84YZ	Insertion of Other Device into Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UH901Z	Insertion of Radioactive Element into Uterus, Open Approach	PX	ICD-10-PCS
0UH90HZ	Insertion of Contraceptive Device into Uterus, Open Approach	PX	ICD-10-PCS
0UHC01Z	Insertion of Radioactive Element into Cervix, Open Approach	PX	ICD-10-PCS
0UHC41Z	Insertion of Radioactive Element into Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UHD03Z	Insertion of Infusion Device into Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UHD0YZ	Insertion of Other Device into Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UHD43Z	Insertion of Infusion Device into Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UHD4YZ	Insertion of Other Device into Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UHG01Z	Insertion of Radioactive Element into Vagina, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UHG41Z	Insertion of Radioactive Element into Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UHH03Z	Insertion of Infusion Device into Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UHH0YZ	Insertion of Other Device into Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UHH33Z	Insertion of Infusion Device into Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UHH43Z	Insertion of Infusion Device into Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UHH4YZ	Insertion of Other Device into Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UL50CZ	Occlusion of Right Fallopian Tube with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0UL50DZ	Occlusion of Right Fallopian Tube with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0UL50ZZ	Occlusion of Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UL53CZ	Occlusion of Right Fallopian Tube with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0UL53DZ	Occlusion of Right Fallopian Tube with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0UL53ZZ	Occlusion of Right Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UL54CZ	Occlusion of Right Fallopian Tube with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UL54DZ	Occlusion of Right Fallopian Tube with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UL54ZZ	Occlusion of Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UL57DZ	Occlusion of Right Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UL57ZZ	Occlusion of Right Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UL58DZ	Occlusion of Right Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UL58ZZ	Occlusion of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UL60CZ	Occlusion of Left Fallopian Tube with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0UL60DZ	Occlusion of Left Fallopian Tube with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0UL60ZZ	Occlusion of Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UL63CZ	Occlusion of Left Fallopian Tube with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0UL63DZ	Occlusion of Left Fallopian Tube with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0UL63ZZ	Occlusion of Left Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UL64CZ	Occlusion of Left Fallopian Tube with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UL64DZ	Occlusion of Left Fallopian Tube with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UL64ZZ	Occlusion of Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UL67DZ	Occlusion of Left Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UL67ZZ	Occlusion of Left Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UL68DZ	Occlusion of Left Fallopian Tube with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UL68ZZ	Occlusion of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UL70CZ	Occlusion of Bilateral Fallopian Tubes with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0UL70DZ	Occlusion of Bilateral Fallopian Tubes with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0UL70ZZ	Occlusion of Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0UL73CZ	Occlusion of Bilateral Fallopian Tubes with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0UL73DZ	Occlusion of Bilateral Fallopian Tubes with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0UL73ZZ	Occlusion of Bilateral Fallopian Tubes, Percutaneous Approach	PX	ICD-10-PCS
0UL74CZ	Occlusion of Bilateral Fallopian Tubes with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UL74DZ	Occlusion of Bilateral Fallopian Tubes with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UL74ZZ	Occlusion of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UL77DZ	Occlusion of Bilateral Fallopian Tubes with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UL77ZZ	Occlusion of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UL78DZ	Occlusion of Bilateral Fallopian Tubes with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UL78ZZ	Occlusion of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0ULF7DZ	Occlusion of Cul-de-sac with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0ULF7ZZ	Occlusion of Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0ULF8DZ	Occlusion of Cul-de-sac with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0ULF8ZZ	Occlusion of Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0ULG7DZ	Occlusion of Vagina with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0ULG7ZZ	Occlusion of Vagina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0ULG8DZ	Occlusion of Vagina with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0ULG8ZZ	Occlusion of Vagina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UM00ZZ	Reattachment of Right Ovary, Open Approach	PX	ICD-10-PCS
0UM04ZZ	Reattachment of Right Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UM10ZZ	Reattachment of Left Ovary, Open Approach	PX	ICD-10-PCS
0UM14ZZ	Reattachment of Left Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UM20ZZ	Reattachment of Bilateral Ovaries, Open Approach	PX	ICD-10-PCS
0UM24ZZ	Reattachment of Bilateral Ovaries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UM40ZZ	Reattachment of Uterine Supporting Structure, Open Approach	PX	ICD-10-PCS
0UM44ZZ	Reattachment of Uterine Supporting Structure, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UM50ZZ	Reattachment of Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UM54ZZ	Reattachment of Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UM60ZZ	Reattachment of Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UM64ZZ	Reattachment of Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UM70ZZ	Reattachment of Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0UM74ZZ	Reattachment of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UM90ZZ	Reattachment of Uterus, Open Approach	PX	ICD-10-PCS
0UM94ZZ	Reattachment of Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UMC0ZZ	Reattachment of Cervix, Open Approach	PX	ICD-10-PCS
0UMC4ZZ	Reattachment of Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UMF0ZZ	Reattachment of Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UMF4ZZ	Reattachment of Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UMG0ZZ	Reattachment of Vagina, Open Approach	PX	ICD-10-PCS
0UMG4ZZ	Reattachment of Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UMJXZZ	Reattachment of Clitoris, External Approach	PX	ICD-10-PCS
0UMK0ZZ	Reattachment of Hymen, Open Approach	PX	ICD-10-PCS
0UMK4ZZ	Reattachment of Hymen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UMKXZZ	Reattachment of Hymen, External Approach	PX	ICD-10-PCS
0UMMXZZ	Reattachment of Vulva, External Approach	PX	ICD-10-PCS
0UN00ZZ	Release Right Ovary, Open Approach	PX	ICD-10-PCS
0UN03ZZ	Release Right Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UN04ZZ	Release Right Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UN08ZZ	Release Right Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UN10ZZ	Release Left Ovary, Open Approach	PX	ICD-10-PCS
0UN13ZZ	Release Left Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UN14ZZ	Release Left Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UN18ZZ	Release Left Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UN20ZZ	Release Bilateral Ovaries, Open Approach	PX	ICD-10-PCS
0UN23ZZ	Release Bilateral Ovaries, Percutaneous Approach	PX	ICD-10-PCS
0UN24ZZ	Release Bilateral Ovaries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UN28ZZ	Release Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UN40ZZ	Release Uterine Supporting Structure, Open Approach	PX	ICD-10-PCS
0UN43ZZ	Release Uterine Supporting Structure, Percutaneous Approach	PX	ICD-10-PCS
0UN44ZZ	Release Uterine Supporting Structure, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UN48ZZ	Release Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UN50ZZ	Release Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UN53ZZ	Release Right Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UN54ZZ	Release Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UN57ZZ	Release Right Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UN58ZZ	Release Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UN60ZZ	Release Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UN63ZZ	Release Left Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UN64ZZ	Release Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UN67ZZ	Release Left Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UN68ZZ	Release Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UN70ZZ	Release Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UN73ZZ	Release Bilateral Fallopian Tubes, Percutaneous Approach	PX	ICD-10-PCS
0UN74ZZ	Release Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UN77ZZ	Release Bilateral Fallopian Tubes, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UN78ZZ	Release Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UN90ZZ	Release Uterus, Open Approach	PX	ICD-10-PCS
0UN93ZZ	Release Uterus, Percutaneous Approach	PX	ICD-10-PCS
0UN94ZZ	Release Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UN97ZZ	Release Uterus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UN98ZZ	Release Uterus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UNC0ZZ	Release Cervix, Open Approach	PX	ICD-10-PCS
0UNC3ZZ	Release Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UNC4ZZ	Release Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UNC7ZZ	Release Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UNC8ZZ	Release Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UNF0ZZ	Release Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UNF3ZZ	Release Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UNF4ZZ	Release Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UNF7ZZ	Release Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UNF8ZZ	Release Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UNG0ZZ	Release Vagina, Open Approach	PX	ICD-10-PCS
0UNG3ZZ	Release Vagina, Percutaneous Approach	PX	ICD-10-PCS
0UNG4ZZ	Release Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UNG7ZZ	Release Vagina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UNG8ZZ	Release Vagina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UNGXZZ	Release Vagina, External Approach	PX	ICD-10-PCS
0UNJ0ZZ	Release Clitoris, Open Approach	PX	ICD-10-PCS
0UNJXZZ	Release Clitoris, External Approach	PX	ICD-10-PCS
0UNK0ZZ	Release Hymen, Open Approach	PX	ICD-10-PCS
0UNK3ZZ	Release Hymen, Percutaneous Approach	PX	ICD-10-PCS
0UNK4ZZ	Release Hymen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UNK7ZZ	Release Hymen, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UNK8ZZ	Release Hymen, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UNKXZZ	Release Hymen, External Approach	PX	ICD-10-PCS
0UNL0ZZ	Release Vestibular Gland, Open Approach	PX	ICD-10-PCS
0UNLXZZ	Release Vestibular Gland, External Approach	PX	ICD-10-PCS
0UNM0ZZ	Release Vulva, Open Approach	PX	ICD-10-PCS
0UNMXZZ	Release Vulva, External Approach	PX	ICD-10-PCS
0UP300Z	Removal of Drainage Device from Ovary, Open Approach	PX	ICD-10-PCS
0UP303Z	Removal of Infusion Device from Ovary, Open Approach	PX	ICD-10-PCS
0UP30YZ	Removal of Other Device from Ovary, Open Approach	PX	ICD-10-PCS
0UP330Z	Removal of Drainage Device from Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UP333Z	Removal of Infusion Device from Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UP340Z	Removal of Drainage Device from Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UP343Z	Removal of Infusion Device from Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UP34YZ	Removal of Other Device from Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UP800Z	Removal of Drainage Device from Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UP803Z	Removal of Infusion Device from Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UP807Z	Removal of Autologous Tissue Substitute from Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UP80CZ	Removal of Extraluminal Device from Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UP80DZ	Removal of Intraluminal Device from Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UP80JZ	Removal of Synthetic Substitute from Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UP80KZ	Removal of Nonautologous Tissue Substitute from Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UP80YZ	Removal of Other Device from Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UP830Z	Removal of Drainage Device from Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UP833Z	Removal of Infusion Device from Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UP837Z	Removal of Autologous Tissue Substitute from Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UP83CZ	Removal of Extraluminal Device from Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UP83DZ	Removal of Intraluminal Device from Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UP83JZ	Removal of Synthetic Substitute from Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UP83KZ	Removal of Nonautologous Tissue Substitute from Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UP840Z	Removal of Drainage Device from Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UP843Z	Removal of Infusion Device from Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UP847Z	Removal of Autologous Tissue Substitute from Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UP84CZ	Removal of Extraluminal Device from Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UP84DZ	Removal of Intraluminal Device from Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UP84JZ	Removal of Synthetic Substitute from Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UP84KZ	Removal of Nonautologous Tissue Substitute from Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UP84YZ	Removal of Other Device from Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UP877Z	Removal of Autologous Tissue Substitute from Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UP87CZ	Removal of Extraluminal Device from Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UP87JZ	Removal of Synthetic Substitute from Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UP87KZ	Removal of Nonautologous Tissue Substitute from Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UP887Z	Removal of Autologous Tissue Substitute from Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UP88CZ	Removal of Extraluminal Device from Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UP88JZ	Removal of Synthetic Substitute from Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UP88KZ	Removal of Nonautologous Tissue Substitute from Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UPD00Z	Removal of Drainage Device from Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UPD01Z	Removal of Radioactive Element from Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UPD03Z	Removal of Infusion Device from Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UPD07Z	Removal of Autologous Tissue Substitute from Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UPD0CZ	Removal of Extraluminal Device from Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UPD0DZ	Removal of Intraluminal Device from Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UPD0HZ	Removal of Contraceptive Device from Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UPD0JZ	Removal of Synthetic Substitute from Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UPD0KZ	Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UPD0YZ	Removal of Other Device from Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UPD30Z	Removal of Drainage Device from Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UPD33Z	Removal of Infusion Device from Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UPD37Z	Removal of Autologous Tissue Substitute from Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UPD3DZ	Removal of Intraluminal Device from Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UPD3HZ	Removal of Contraceptive Device from Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UPD3JZ	Removal of Synthetic Substitute from Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UPD3KZ	Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UPD40Z	Removal of Drainage Device from Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPD41Z	Removal of Radioactive Element from Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPD43Z	Removal of Infusion Device from Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPD47Z	Removal of Autologous Tissue Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPD4CZ	Removal of Extraluminal Device from Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPD4DZ	Removal of Intraluminal Device from Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPD4HZ	Removal of Contraceptive Device from Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPD4JZ	Removal of Synthetic Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UPD4KZ	Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPD4YZ	Removal of Other Device from Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPD77Z	Removal of Autologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UPD7JZ	Removal of Synthetic Substitute from Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UPD7KZ	Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UPD87Z	Removal of Autologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UPD8JZ	Removal of Synthetic Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UPD8KZ	Removal of Nonautologous Tissue Substitute from Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UPH00Z	Removal of Drainage Device from Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UPH01Z	Removal of Radioactive Element from Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UPH03Z	Removal of Infusion Device from Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UPH07Z	Removal of Autologous Tissue Substitute from Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UPH0DZ	Removal of Intraluminal Device from Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UPH0JZ	Removal of Synthetic Substitute from Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UPH0KZ	Removal of Nonautologous Tissue Substitute from Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UPH0YZ	Removal of Other Device from Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UPH30Z	Removal of Drainage Device from Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UPH33Z	Removal of Infusion Device from Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UPH37Z	Removal of Autologous Tissue Substitute from Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UPH3DZ	Removal of Intraluminal Device from Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UPH3JZ	Removal of Synthetic Substitute from Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UPH3KZ	Removal of Nonautologous Tissue Substitute from Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UPH40Z	Removal of Drainage Device from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPH41Z	Removal of Radioactive Element from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPH43Z	Removal of Infusion Device from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPH47Z	Removal of Autologous Tissue Substitute from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UPH4DZ	Removal of Intraluminal Device from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPH4JZ	Removal of Synthetic Substitute from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPH4KZ	Removal of Nonautologous Tissue Substitute from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPH4YZ	Removal of Other Device from Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UPH77Z	Removal of Autologous Tissue Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UPH7JZ	Removal of Synthetic Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UPH7KZ	Removal of Nonautologous Tissue Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UPH87Z	Removal of Autologous Tissue Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UPH8JZ	Removal of Synthetic Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UPH8KZ	Removal of Nonautologous Tissue Substitute from Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UPM00Z	Removal of Drainage Device from Vulva, Open Approach	PX	ICD-10-PCS
0UPM07Z	Removal of Autologous Tissue Substitute from Vulva, Open Approach	PX	ICD-10-PCS
0UPM0JZ	Removal of Synthetic Substitute from Vulva, Open Approach	PX	ICD-10-PCS
0UPM0KZ	Removal of Nonautologous Tissue Substitute from Vulva, Open Approach	PX	ICD-10-PCS
0UQ00ZZ	Repair Right Ovary, Open Approach	PX	ICD-10-PCS
0UQ03ZZ	Repair Right Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UQ04ZZ	Repair Right Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQ08ZZ	Repair Right Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQ10ZZ	Repair Left Ovary, Open Approach	PX	ICD-10-PCS
0UQ13ZZ	Repair Left Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UQ14ZZ	Repair Left Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQ18ZZ	Repair Left Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQ20ZZ	Repair Bilateral Ovaries, Open Approach	PX	ICD-10-PCS
0UQ23ZZ	Repair Bilateral Ovaries, Percutaneous Approach	PX	ICD-10-PCS
0UQ24ZZ	Repair Bilateral Ovaries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQ28ZZ	Repair Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQ40ZZ	Repair Uterine Supporting Structure, Open Approach	PX	ICD-10-PCS
0UQ43ZZ	Repair Uterine Supporting Structure, Percutaneous Approach	PX	ICD-10-PCS
0UQ44ZZ	Repair Uterine Supporting Structure, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQ48ZZ	Repair Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQ50ZZ	Repair Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UQ53ZZ	Repair Right Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UQ54ZZ	Repair Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQ57ZZ	Repair Right Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UQ58ZZ	Repair Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQ60ZZ	Repair Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UQ63ZZ	Repair Left Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UQ64ZZ	Repair Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQ67ZZ	Repair Left Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UQ68ZZ	Repair Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQ70ZZ	Repair Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0UQ73ZZ	Repair Bilateral Fallopian Tubes, Percutaneous Approach	PX	ICD-10-PCS
0UQ74ZZ	Repair Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQ77ZZ	Repair Bilateral Fallopian Tubes, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UQ78ZZ	Repair Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQ90ZZ	Repair Uterus, Open Approach	PX	ICD-10-PCS
0UQ93ZZ	Repair Uterus, Percutaneous Approach	PX	ICD-10-PCS
0UQ94ZZ	Repair Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQ97ZZ	Repair Uterus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UQ98ZZ	Repair Uterus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQC0ZZ	Repair Cervix, Open Approach	PX	ICD-10-PCS
0UQC3ZZ	Repair Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UQC4ZZ	Repair Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQC7ZZ	Repair Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UQC8ZZ	Repair Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQF0ZZ	Repair Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UQF3ZZ	Repair Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UQF4ZZ	Repair Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQF7ZZ	Repair Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UQF8ZZ	Repair Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQG0ZZ	Repair Vagina, Open Approach	PX	ICD-10-PCS
0UQG3ZZ	Repair Vagina, Percutaneous Approach	PX	ICD-10-PCS
0UQG4ZZ	Repair Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQG8ZZ	Repair Vagina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQJ0ZZ	Repair Clitoris, Open Approach	PX	ICD-10-PCS
0UQJXZZ	Repair Clitoris, External Approach	PX	ICD-10-PCS
0UQK0ZZ	Repair Hymen, Open Approach	PX	ICD-10-PCS
0UQK3ZZ	Repair Hymen, Percutaneous Approach	PX	ICD-10-PCS
0UQK4ZZ	Repair Hymen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UQK7ZZ	Repair Hymen, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UQK8ZZ	Repair Hymen, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UQL0ZZ	Repair Vestibular Gland, Open Approach	PX	ICD-10-PCS
0UQLXZZ	Repair Vestibular Gland, External Approach	PX	ICD-10-PCS
0UQM0ZZ	Repair Vulva, Open Approach	PX	ICD-10-PCS
0US00ZZ	Reposition Right Ovary, Open Approach	PX	ICD-10-PCS
0US04ZZ	Reposition Right Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0US08ZZ	Reposition Right Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0US10ZZ	Reposition Left Ovary, Open Approach	PX	ICD-10-PCS
0US14ZZ	Reposition Left Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0US18ZZ	Reposition Left Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0US20ZZ	Reposition Bilateral Ovaries, Open Approach	PX	ICD-10-PCS
0US24ZZ	Reposition Bilateral Ovaries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0US28ZZ	Reposition Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0US40ZZ	Reposition Uterine Supporting Structure, Open Approach	PX	ICD-10-PCS
0US44ZZ	Reposition Uterine Supporting Structure, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0US48ZZ	Reposition Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0US50ZZ	Reposition Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0US54ZZ	Reposition Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0US58ZZ	Reposition Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0US60ZZ	Reposition Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0US64ZZ	Reposition Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0US68ZZ	Reposition Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0US70ZZ	Reposition Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0US74ZZ	Reposition Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0US78ZZ	Reposition Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0US90ZZ	Reposition Uterus, Open Approach	PX	ICD-10-PCS
0US94ZZ	Reposition Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0US97ZZ	Reposition Uterus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0US98ZZ	Reposition Uterus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0USC0ZZ	Reposition Cervix, Open Approach	PX	ICD-10-PCS
0USC4ZZ	Reposition Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0USC8ZZ	Reposition Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0USF0ZZ	Reposition Cul-de-sac, Open Approach	PX	ICD-10-PCS
0USF4ZZ	Reposition Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0USF8ZZ	Reposition Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0USG0ZZ	Reposition Vagina, Open Approach	PX	ICD-10-PCS
0USG4ZZ	Reposition Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0USG7ZZ	Reposition Vagina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0USG8ZZ	Reposition Vagina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0USGXZZ	Reposition Vagina, External Approach	PX	ICD-10-PCS
0UT00ZZ	Resection of Right Ovary, Open Approach	PX	ICD-10-PCS
0UT04ZZ	Resection of Right Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UT07ZZ	Resection of Right Ovary, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UT08ZZ	Resection of Right Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UT0FZZ	Resection of Right Ovary, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0UT10ZZ	Resection of Left Ovary, Open Approach	PX	ICD-10-PCS
0UT14ZZ	Resection of Left Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UT17ZZ	Resection of Left Ovary, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UT18ZZ	Resection of Left Ovary, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UT1FZZ	Resection of Left Ovary, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UT20ZZ	Resection of Bilateral Ovaries, Open Approach	PX	ICD-10-PCS
0UT24ZZ	Resection of Bilateral Ovaries, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UT27ZZ	Resection of Bilateral Ovaries, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UT28ZZ	Resection of Bilateral Ovaries, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UT2FZZ	Resection of Bilateral Ovaries, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0UT40ZZ	Resection of Uterine Supporting Structure, Open Approach	PX	ICD-10-PCS
0UT44ZZ	Resection of Uterine Supporting Structure, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UT47ZZ	Resection of Uterine Supporting Structure, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UT48ZZ	Resection of Uterine Supporting Structure, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UT50ZZ	Resection of Right Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UT54ZZ	Resection of Right Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UT57ZZ	Resection of Right Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UT58ZZ	Resection of Right Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UT5FZZ	Resection of Right Fallopian Tube, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0UT60ZZ	Resection of Left Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UT64ZZ	Resection of Left Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UT67ZZ	Resection of Left Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UT68ZZ	Resection of Left Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UT6FZZ	Resection of Left Fallopian Tube, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0UT70ZZ	Resection of Bilateral Fallopian Tubes, Open Approach	PX	ICD-10-PCS
0UT74ZZ	Resection of Bilateral Fallopian Tubes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UT77ZZ	Resection of Bilateral Fallopian Tubes, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UT78ZZ	Resection of Bilateral Fallopian Tubes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UT7FZZ	Resection of Bilateral Fallopian Tubes, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0UT90ZL	Resection of Uterus, Supracervical, Open Approach	PX	ICD-10-PCS
0UT90ZZ	Resection of Uterus, Open Approach	PX	ICD-10-PCS
0UT94ZL	Resection of Uterus, Supracervical, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UT94ZZ	Resection of Uterus, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UT97ZL	Resection of Uterus, Supracervical, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UT97ZZ	Resection of Uterus, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UT98ZL	Resection of Uterus, Supracervical, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UT98ZZ	Resection of Uterus, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UT9FZL	Resection of Uterus, Supracervical, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0UT9FZZ	Resection of Uterus, Via Natural or Artificial Opening With Percutaneous Endoscopic Assistance	PX	ICD-10-PCS
0UTC0ZZ	Resection of Cervix, Open Approach	PX	ICD-10-PCS
0UTC4ZZ	Resection of Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UTC7ZZ	Resection of Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UTC8ZZ	Resection of Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UTF0ZZ	Resection of Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UTF4ZZ	Resection of Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UTF7ZZ	Resection of Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UTF8ZZ	Resection of Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UTG0ZZ	Resection of Vagina, Open Approach	PX	ICD-10-PCS
0UTG4ZZ	Resection of Vagina, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UTG7ZZ	Resection of Vagina, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UTG8ZZ	Resection of Vagina, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UTJ0ZZ	Resection of Clitoris, Open Approach	PX	ICD-10-PCS
0UTJXZZ	Resection of Clitoris, External Approach	PX	ICD-10-PCS
0UTK0ZZ	Resection of Hymen, Open Approach	PX	ICD-10-PCS
0UTK4ZZ	Resection of Hymen, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UTK7ZZ	Resection of Hymen, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UTK8ZZ	Resection of Hymen, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UTKXZZ	Resection of Hymen, External Approach	PX	ICD-10-PCS
0UTL0ZZ	Resection of Vestibular Gland, Open Approach	PX	ICD-10-PCS
0UTLXZZ	Resection of Vestibular Gland, External Approach	PX	ICD-10-PCS
0UTM0ZZ	Resection of Vulva, Open Approach	PX	ICD-10-PCS
0UTMXZZ	Resection of Vulva, External Approach	PX	ICD-10-PCS
0UU407Z	Supplement Uterine Supporting Structure with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UU40JZ	Supplement Uterine Supporting Structure with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0UU40KZ	Supplement Uterine Supporting Structure with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UU447Z	Supplement Uterine Supporting Structure with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU44JZ	Supplement Uterine Supporting Structure with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU44KZ	Supplement Uterine Supporting Structure with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU507Z	Supplement Right Fallopian Tube with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UU50JZ	Supplement Right Fallopian Tube with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0UU50KZ	Supplement Right Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UU547Z	Supplement Right Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU54JZ	Supplement Right Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU54KZ	Supplement Right Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU577Z	Supplement Right Fallopian Tube with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UU57JZ	Supplement Right Fallopian Tube with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UU57KZ	Supplement Right Fallopian Tube with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UU587Z	Supplement Right Fallopian Tube with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UU58JZ	Supplement Right Fallopian Tube with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UU58KZ	Supplement Right Fallopian Tube with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UU607Z	Supplement Left Fallopian Tube with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UU60JZ	Supplement Left Fallopian Tube with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0UU60KZ	Supplement Left Fallopian Tube with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UU647Z	Supplement Left Fallopian Tube with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU64JZ	Supplement Left Fallopian Tube with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU64KZ	Supplement Left Fallopian Tube with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU677Z	Supplement Left Fallopian Tube with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UU67JZ	Supplement Left Fallopian Tube with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UU67KZ	Supplement Left Fallopian Tube with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UU687Z	Supplement Left Fallopian Tube with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UU68JZ	Supplement Left Fallopian Tube with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UU68KZ	Supplement Left Fallopian Tube with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UU707Z	Supplement Bilateral Fallopian Tubes with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UU70JZ	Supplement Bilateral Fallopian Tubes with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0UU70KZ	Supplement Bilateral Fallopian Tubes with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UU747Z	Supplement Bilateral Fallopian Tubes with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU74JZ	Supplement Bilateral Fallopian Tubes with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UU74KZ	Supplement Bilateral Fallopian Tubes with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UU777Z	Supplement Bilateral Fallopian Tubes with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UU77JZ	Supplement Bilateral Fallopian Tubes with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UU77KZ	Supplement Bilateral Fallopian Tubes with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UU787Z	Supplement Bilateral Fallopian Tubes with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UU78JZ	Supplement Bilateral Fallopian Tubes with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UU78KZ	Supplement Bilateral Fallopian Tubes with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UUF07Z	Supplement Cul-de-sac with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UUF0JZ	Supplement Cul-de-sac with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0UUF0KZ	Supplement Cul-de-sac with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UUF47Z	Supplement Cul-de-sac with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UUF4JZ	Supplement Cul-de-sac with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UUF4KZ	Supplement Cul-de-sac with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UUF77Z	Supplement Cul-de-sac with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UUF7JZ	Supplement Cul-de-sac with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UUF7KZ	Supplement Cul-de-sac with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UUF87Z	Supplement Cul-de-sac with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UUF8JZ	Supplement Cul-de-sac with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UUF8KZ	Supplement Cul-de-sac with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UUG07Z	Supplement Vagina with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UUG0JZ	Supplement Vagina with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0UUG0KZ	Supplement Vagina with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UUG47Z	Supplement Vagina with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UUG4JZ	Supplement Vagina with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UUG4KZ	Supplement Vagina with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UUG77Z	Supplement Vagina with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UUG7JZ	Supplement Vagina with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UUG7KZ	Supplement Vagina with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UUG87Z	Supplement Vagina with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UUG8JZ	Supplement Vagina with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UUG8KZ	Supplement Vagina with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UUGX7Z	Supplement Vagina with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0UUGXJZ	Supplement Vagina with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0UUGXKZ	Supplement Vagina with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0UUJ07Z	Supplement Clitoris with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UUJ0JZ	Supplement Clitoris with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0UUJ0KZ	Supplement Clitoris with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UUJX7Z	Supplement Clitoris with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0UUJXJZ	Supplement Clitoris with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0UUJXKZ	Supplement Clitoris with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0UUK07Z	Supplement Hymen with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UUK0JZ	Supplement Hymen with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0UUK0KZ	Supplement Hymen with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UUK47Z	Supplement Hymen with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UUK4JZ	Supplement Hymen with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UUK4KZ	Supplement Hymen with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UUK77Z	Supplement Hymen with Autologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UUK7JZ	Supplement Hymen with Synthetic Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UUK7KZ	Supplement Hymen with Nonautologous Tissue Substitute, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UUK87Z	Supplement Hymen with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UUK8JZ	Supplement Hymen with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UUK8KZ	Supplement Hymen with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UUKX7Z	Supplement Hymen with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0UUKXJZ	Supplement Hymen with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0UUKXKZ	Supplement Hymen with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0UUM07Z	Supplement Vulva with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UUM0JZ	Supplement Vulva with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0UUM0KZ	Supplement Vulva with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0UUMX7Z	Supplement Vulva with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0UUMXJZ	Supplement Vulva with Synthetic Substitute, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UUMXKZ	Supplement Vulva with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0UVC0CZ	Restriction of Cervix with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0UVC0DZ	Restriction of Cervix with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0UVC0ZZ	Restriction of Cervix, Open Approach	PX	ICD-10-PCS
0UVC3CZ	Restriction of Cervix with Extraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0UVC3DZ	Restriction of Cervix with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0UVC3ZZ	Restriction of Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UVC4CZ	Restriction of Cervix with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UVC4DZ	Restriction of Cervix with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UVC4ZZ	Restriction of Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UVC7DZ	Restriction of Cervix with Intraluminal Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UVC7ZZ	Restriction of Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UVC8DZ	Restriction of Cervix with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UVC8ZZ	Restriction of Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UW300Z	Revision of Drainage Device in Ovary, Open Approach	PX	ICD-10-PCS
0UW303Z	Revision of Infusion Device in Ovary, Open Approach	PX	ICD-10-PCS
0UW30YZ	Revision of Other Device in Ovary, Open Approach	PX	ICD-10-PCS
0UW330Z	Revision of Drainage Device in Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UW333Z	Revision of Infusion Device in Ovary, Percutaneous Approach	PX	ICD-10-PCS
0UW340Z	Revision of Drainage Device in Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UW343Z	Revision of Infusion Device in Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UW34YZ	Revision of Other Device in Ovary, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UW800Z	Revision of Drainage Device in Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UW803Z	Revision of Infusion Device in Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UW807Z	Revision of Autologous Tissue Substitute in Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UW80CZ	Revision of Extraluminal Device in Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UW80DZ	Revision of Intraluminal Device in Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UW80JZ	Revision of Synthetic Substitute in Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UW80KZ	Revision of Nonautologous Tissue Substitute in Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UW80YZ	Revision of Other Device in Fallopian Tube, Open Approach	PX	ICD-10-PCS
0UW830Z	Revision of Drainage Device in Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UW833Z	Revision of Infusion Device in Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UW837Z	Revision of Autologous Tissue Substitute in Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UW83CZ	Revision of Extraluminal Device in Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UW83DZ	Revision of Intraluminal Device in Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UW83JZ	Revision of Synthetic Substitute in Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UW83KZ	Revision of Nonautologous Tissue Substitute in Fallopian Tube, Percutaneous Approach	PX	ICD-10-PCS
0UW840Z	Revision of Drainage Device in Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UW843Z	Revision of Infusion Device in Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UW847Z	Revision of Autologous Tissue Substitute in Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UW84CZ	Revision of Extraluminal Device in Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UW84DZ	Revision of Intraluminal Device in Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UW84JZ	Revision of Synthetic Substitute in Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UW84KZ	Revision of Nonautologous Tissue Substitute in Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UW84YZ	Revision of Other Device in Fallopian Tube, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UW870Z	Revision of Drainage Device in Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UW873Z	Revision of Infusion Device in Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UW877Z	Revision of Autologous Tissue Substitute in Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UW87CZ	Revision of Extraluminal Device in Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UW87DZ	Revision of Intraluminal Device in Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UW87JZ	Revision of Synthetic Substitute in Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UW87KZ	Revision of Nonautologous Tissue Substitute in Fallopian Tube, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UW880Z	Revision of Drainage Device in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UW883Z	Revision of Infusion Device in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UW887Z	Revision of Autologous Tissue Substitute in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UW88CZ	Revision of Extraluminal Device in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UW88DZ	Revision of Intraluminal Device in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UW88JZ	Revision of Synthetic Substitute in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UW88KZ	Revision of Nonautologous Tissue Substitute in Fallopian Tube, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWD00Z	Revision of Drainage Device in Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UWD01Z	Revision of Radioactive Element in Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UWD03Z	Revision of Infusion Device in Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UWD07Z	Revision of Autologous Tissue Substitute in Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UWD0CZ	Revision of Extraluminal Device in Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UWD0DZ	Revision of Intraluminal Device in Uterus and Cervix, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UWD0HZ	Revision of Contraceptive Device in Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UWD0JZ	Revision of Synthetic Substitute in Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UWD0KZ	Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UWD0YZ	Revision of Other Device in Uterus and Cervix, Open Approach	PX	ICD-10-PCS
0UWD30Z	Revision of Drainage Device in Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UWD33Z	Revision of Infusion Device in Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UWD37Z	Revision of Autologous Tissue Substitute in Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UWD3CZ	Revision of Extraluminal Device in Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UWD3DZ	Revision of Intraluminal Device in Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UWD3HZ	Revision of Contraceptive Device in Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UWD3JZ	Revision of Synthetic Substitute in Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UWD3KZ	Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Percutaneous Approach	PX	ICD-10-PCS
0UWD40Z	Revision of Drainage Device in Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWD41Z	Revision of Radioactive Element in Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWD43Z	Revision of Infusion Device in Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWD47Z	Revision of Autologous Tissue Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWD4CZ	Revision of Extraluminal Device in Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWD4DZ	Revision of Intraluminal Device in Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWD4HZ	Revision of Contraceptive Device in Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWD4JZ	Revision of Synthetic Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWD4KZ	Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWD4YZ	Revision of Other Device in Uterus and Cervix, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWD70Z	Revision of Drainage Device in Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWD73Z	Revision of Infusion Device in Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWD77Z	Revision of Autologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWD7CZ	Revision of Extraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWD7DZ	Revision of Intraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UWD7HZ	Revision of Contraceptive Device in Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWD7JZ	Revision of Synthetic Substitute in Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWD7KZ	Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWD80Z	Revision of Drainage Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWD83Z	Revision of Infusion Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWD87Z	Revision of Autologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWD8CZ	Revision of Extraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWD8DZ	Revision of Intraluminal Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWD8HZ	Revision of Contraceptive Device in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWD8JZ	Revision of Synthetic Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWD8KZ	Revision of Nonautologous Tissue Substitute in Uterus and Cervix, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWH00Z	Revision of Drainage Device in Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UWH01Z	Revision of Radioactive Element in Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UWH03Z	Revision of Infusion Device in Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UWH07Z	Revision of Autologous Tissue Substitute in Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UWH0DZ	Revision of Intraluminal Device in Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UWH0JZ	Revision of Synthetic Substitute in Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UWH0KZ	Revision of Nonautologous Tissue Substitute in Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UWH0YZ	Revision of Other Device in Vagina and Cul-de-sac, Open Approach	PX	ICD-10-PCS
0UWH30Z	Revision of Drainage Device in Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UWH33Z	Revision of Infusion Device in Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UWH37Z	Revision of Autologous Tissue Substitute in Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UWH3DZ	Revision of Intraluminal Device in Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UWH3JZ	Revision of Synthetic Substitute in Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UWH3KZ	Revision of Nonautologous Tissue Substitute in Vagina and Cul-de-sac, Percutaneous Approach	PX	ICD-10-PCS
0UWH40Z	Revision of Drainage Device in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UWH41Z	Revision of Radioactive Element in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWH43Z	Revision of Infusion Device in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWH47Z	Revision of Autologous Tissue Substitute in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWH4DZ	Revision of Intraluminal Device in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWH4JZ	Revision of Synthetic Substitute in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWH4KZ	Revision of Nonautologous Tissue Substitute in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWH4YZ	Revision of Other Device in Vagina and Cul-de-sac, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0UWH70Z	Revision of Drainage Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWH73Z	Revision of Infusion Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWH77Z	Revision of Autologous Tissue Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWH7DZ	Revision of Intraluminal Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWH7JZ	Revision of Synthetic Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWH7KZ	Revision of Nonautologous Tissue Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening	PX	ICD-10-PCS
0UWH80Z	Revision of Drainage Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWH83Z	Revision of Infusion Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWH87Z	Revision of Autologous Tissue Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWH8DZ	Revision of Intraluminal Device in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWH8JZ	Revision of Synthetic Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWH8KZ	Revision of Nonautologous Tissue Substitute in Vagina and Cul-de-sac, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0UWM00Z	Revision of Drainage Device in Vulva, Open Approach	PX	ICD-10-PCS
0UWM07Z	Revision of Autologous Tissue Substitute in Vulva, Open Approach	PX	ICD-10-PCS
0UWM0JZ	Revision of Synthetic Substitute in Vulva, Open Approach	PX	ICD-10-PCS
0UWM0KZ	Revision of Nonautologous Tissue Substitute in Vulva, Open Approach	PX	ICD-10-PCS
0UY00Z0	Transplantation of Right Ovary, Allogeneic, Open Approach	PX	ICD-10-PCS
0UY00Z1	Transplantation of Right Ovary, Syngeneic, Open Approach	PX	ICD-10-PCS
0UY00Z2	Transplantation of Right Ovary, Zooplastic, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0UY10Z0	Transplantation of Left Ovary, Allogeneic, Open Approach	PX	ICD-10-PCS
0UY10Z1	Transplantation of Left Ovary, Syngeneic, Open Approach	PX	ICD-10-PCS
0UY10Z2	Transplantation of Left Ovary, Zooplastic, Open Approach	PX	ICD-10-PCS
0UY90Z0	Transplantation of Uterus, Allogeneic, Open Approach	PX	ICD-10-PCS
0UY90Z1	Transplantation of Uterus, Syngeneic, Open Approach	PX	ICD-10-PCS
0UY90Z2	Transplantation of Uterus, Zooplastic, Open Approach	PX	ICD-10-PCS
0V1N07J	Bypass Right Vas Deferens to Right Epididymis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1N07K	Bypass Right Vas Deferens to Left Epididymis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1N07N	Bypass Right Vas Deferens to Right Vas Deferens with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1N07P	Bypass Right Vas Deferens to Left Vas Deferens with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1N0JJ	Bypass Right Vas Deferens to Right Epididymis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1N0JK	Bypass Right Vas Deferens to Left Epididymis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1N0JN	Bypass Right Vas Deferens to Right Vas Deferens with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1N0JP	Bypass Right Vas Deferens to Left Vas Deferens with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1N0KJ	Bypass Right Vas Deferens to Right Epididymis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1N0KK	Bypass Right Vas Deferens to Left Epididymis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1N0KN	Bypass Right Vas Deferens to Right Vas Deferens with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1N0KP	Bypass Right Vas Deferens to Left Vas Deferens with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1N0ZJ	Bypass Right Vas Deferens to Right Epididymis, Open Approach	PX	ICD-10-PCS
0V1N0ZK	Bypass Right Vas Deferens to Left Epididymis, Open Approach	PX	ICD-10-PCS
0V1N0ZN	Bypass Right Vas Deferens to Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0V1N0ZP	Bypass Right Vas Deferens to Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0V1N47J	Bypass Right Vas Deferens to Right Epididymis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N47K	Bypass Right Vas Deferens to Left Epididymis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N47N	Bypass Right Vas Deferens to Right Vas Deferens with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N47P	Bypass Right Vas Deferens to Left Vas Deferens with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4JJ	Bypass Right Vas Deferens to Right Epididymis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0V1N4JK	Bypass Right Vas Deferens to Left Epididymis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4JN	Bypass Right Vas Deferens to Right Vas Deferens with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4JP	Bypass Right Vas Deferens to Left Vas Deferens with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4KJ	Bypass Right Vas Deferens to Right Epididymis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4KK	Bypass Right Vas Deferens to Left Epididymis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4KN	Bypass Right Vas Deferens to Right Vas Deferens with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4KP	Bypass Right Vas Deferens to Left Vas Deferens with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4ZJ	Bypass Right Vas Deferens to Right Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4ZK	Bypass Right Vas Deferens to Left Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4ZN	Bypass Right Vas Deferens to Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1N4ZP	Bypass Right Vas Deferens to Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P07J	Bypass Left Vas Deferens to Right Epididymis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1P07K	Bypass Left Vas Deferens to Left Epididymis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1P07N	Bypass Left Vas Deferens to Right Vas Deferens with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1P07P	Bypass Left Vas Deferens to Left Vas Deferens with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1P0JJ	Bypass Left Vas Deferens to Right Epididymis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1P0JK	Bypass Left Vas Deferens to Left Epididymis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1P0JN	Bypass Left Vas Deferens to Right Vas Deferens with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1P0JP	Bypass Left Vas Deferens to Left Vas Deferens with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1P0KJ	Bypass Left Vas Deferens to Right Epididymis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1P0KK	Bypass Left Vas Deferens to Left Epididymis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1P0KN	Bypass Left Vas Deferens to Right Vas Deferens with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0V1P0KP	Bypass Left Vas Deferens to Left Vas Deferens with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1P0ZJ	Bypass Left Vas Deferens to Right Epididymis, Open Approach	PX	ICD-10-PCS
0V1P0ZK	Bypass Left Vas Deferens to Left Epididymis, Open Approach	PX	ICD-10-PCS
0V1P0ZN	Bypass Left Vas Deferens to Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0V1P0ZP	Bypass Left Vas Deferens to Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0V1P47J	Bypass Left Vas Deferens to Right Epididymis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P47K	Bypass Left Vas Deferens to Left Epididymis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P47N	Bypass Left Vas Deferens to Right Vas Deferens with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P47P	Bypass Left Vas Deferens to Left Vas Deferens with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4JJ	Bypass Left Vas Deferens to Right Epididymis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4JK	Bypass Left Vas Deferens to Left Epididymis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4JN	Bypass Left Vas Deferens to Right Vas Deferens with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4JP	Bypass Left Vas Deferens to Left Vas Deferens with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4KJ	Bypass Left Vas Deferens to Right Epididymis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4KK	Bypass Left Vas Deferens to Left Epididymis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4KN	Bypass Left Vas Deferens to Right Vas Deferens with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4KP	Bypass Left Vas Deferens to Left Vas Deferens with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4ZJ	Bypass Left Vas Deferens to Right Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4ZK	Bypass Left Vas Deferens to Left Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4ZN	Bypass Left Vas Deferens to Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1P4ZP	Bypass Left Vas Deferens to Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q07J	Bypass Bilateral Vas Deferens to Right Epididymis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1Q07K	Bypass Bilateral Vas Deferens to Left Epididymis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1Q07N	Bypass Bilateral Vas Deferens to Right Vas Deferens with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1Q07P	Bypass Bilateral Vas Deferens to Left Vas Deferens with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0V1Q0JJ	Bypass Bilateral Vas Deferens to Right Epididymis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1Q0JK	Bypass Bilateral Vas Deferens to Left Epididymis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1Q0JN	Bypass Bilateral Vas Deferens to Right Vas Deferens with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1Q0JP	Bypass Bilateral Vas Deferens to Left Vas Deferens with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0V1Q0KJ	Bypass Bilateral Vas Deferens to Right Epididymis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1Q0KK	Bypass Bilateral Vas Deferens to Left Epididymis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1Q0KN	Bypass Bilateral Vas Deferens to Right Vas Deferens with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1Q0KP	Bypass Bilateral Vas Deferens to Left Vas Deferens with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0V1Q0ZJ	Bypass Bilateral Vas Deferens to Right Epididymis, Open Approach	PX	ICD-10-PCS
0V1Q0ZK	Bypass Bilateral Vas Deferens to Left Epididymis, Open Approach	PX	ICD-10-PCS
0V1Q0ZN	Bypass Bilateral Vas Deferens to Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0V1Q0ZP	Bypass Bilateral Vas Deferens to Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0V1Q47J	Bypass Bilateral Vas Deferens to Right Epididymis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q47K	Bypass Bilateral Vas Deferens to Left Epididymis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q47N	Bypass Bilateral Vas Deferens to Right Vas Deferens with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q47P	Bypass Bilateral Vas Deferens to Left Vas Deferens with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4JJ	Bypass Bilateral Vas Deferens to Right Epididymis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4JK	Bypass Bilateral Vas Deferens to Left Epididymis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4JN	Bypass Bilateral Vas Deferens to Right Vas Deferens with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4JP	Bypass Bilateral Vas Deferens to Left Vas Deferens with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4KJ	Bypass Bilateral Vas Deferens to Right Epididymis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4KK	Bypass Bilateral Vas Deferens to Left Epididymis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4KN	Bypass Bilateral Vas Deferens to Right Vas Deferens with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4KP	Bypass Bilateral Vas Deferens to Left Vas Deferens with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0V1Q4ZJ	Bypass Bilateral Vas Deferens to Right Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4ZK	Bypass Bilateral Vas Deferens to Left Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4ZN	Bypass Bilateral Vas Deferens to Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V1Q4ZP	Bypass Bilateral Vas Deferens to Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V500Z3	Destruction of Prostate using Laser Interstitial Thermal Therapy, Open Approach	PX	ICD-10-PCS
0V500ZZ	Destruction of Prostate, Open Approach	PX	ICD-10-PCS
0V503Z3	Destruction of Prostate using Laser Interstitial Thermal Therapy, Percutaneous Approach	PX	ICD-10-PCS
0V503ZZ	Destruction of Prostate, Percutaneous Approach	PX	ICD-10-PCS
0V504Z3	Destruction of Prostate using Laser Interstitial Thermal Therapy, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V504ZZ	Destruction of Prostate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V507ZZ	Destruction of Prostate, Via Natural or Artificial Opening	PX	ICD-10-PCS
0V508ZZ	Destruction of Prostate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0V510ZZ	Destruction of Right Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0V513ZZ	Destruction of Right Seminal Vesicle, Percutaneous Approach	PX	ICD-10-PCS
0V514ZZ	Destruction of Right Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V520ZZ	Destruction of Left Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0V523ZZ	Destruction of Left Seminal Vesicle, Percutaneous Approach	PX	ICD-10-PCS
0V524ZZ	Destruction of Left Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V530ZZ	Destruction of Bilateral Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0V533ZZ	Destruction of Bilateral Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0V534ZZ	Destruction of Bilateral Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V550ZZ	Destruction of Scrotum, Open Approach	PX	ICD-10-PCS
0V554ZZ	Destruction of Scrotum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V560ZZ	Destruction of Right Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0V563ZZ	Destruction of Right Tunica Vaginalis, Percutaneous Approach	PX	ICD-10-PCS
0V564ZZ	Destruction of Right Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V570ZZ	Destruction of Left Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0V573ZZ	Destruction of Left Tunica Vaginalis, Percutaneous Approach	PX	ICD-10-PCS
0V574ZZ	Destruction of Left Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V590ZZ	Destruction of Right Testis, Open Approach	PX	ICD-10-PCS
0V593ZZ	Destruction of Right Testis, Percutaneous Approach	PX	ICD-10-PCS
0V594ZZ	Destruction of Right Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5B0ZZ	Destruction of Left Testis, Open Approach	PX	ICD-10-PCS
0V5B3ZZ	Destruction of Left Testis, Percutaneous Approach	PX	ICD-10-PCS
0V5B4ZZ	Destruction of Left Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5C0ZZ	Destruction of Bilateral Testes, Open Approach	PX	ICD-10-PCS
0V5C3ZZ	Destruction of Bilateral Testes, Percutaneous Approach	PX	ICD-10-PCS
0V5C4ZZ	Destruction of Bilateral Testes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5F0ZZ	Destruction of Right Spermatic Cord, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0V5F3ZZ	Destruction of Right Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0V5F4ZZ	Destruction of Right Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5F8ZZ	Destruction of Right Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0V5G0ZZ	Destruction of Left Spermatic Cord, Open Approach	PX	ICD-10-PCS
0V5G3ZZ	Destruction of Left Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0V5G4ZZ	Destruction of Left Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5G8ZZ	Destruction of Left Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0V5H0ZZ	Destruction of Bilateral Spermatic Cords, Open Approach	PX	ICD-10-PCS
0V5H3ZZ	Destruction of Bilateral Spermatic Cords, Percutaneous Approach	PX	ICD-10-PCS
0V5H4ZZ	Destruction of Bilateral Spermatic Cords, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5H8ZZ	Destruction of Bilateral Spermatic Cords, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0V5J0ZZ	Destruction of Right Epididymis, Open Approach	PX	ICD-10-PCS
0V5J3ZZ	Destruction of Right Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0V5J4ZZ	Destruction of Right Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5J8ZZ	Destruction of Right Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0V5K0ZZ	Destruction of Left Epididymis, Open Approach	PX	ICD-10-PCS
0V5K3ZZ	Destruction of Left Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0V5K4ZZ	Destruction of Left Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5K8ZZ	Destruction of Left Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0V5L0ZZ	Destruction of Bilateral Epididymis, Open Approach	PX	ICD-10-PCS
0V5L3ZZ	Destruction of Bilateral Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0V5L4ZZ	Destruction of Bilateral Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5L8ZZ	Destruction of Bilateral Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0V5N0ZZ	Destruction of Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0V5N4ZZ	Destruction of Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5P0ZZ	Destruction of Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0V5P4ZZ	Destruction of Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5Q0ZZ	Destruction of Bilateral Vas Deferens, Open Approach	PX	ICD-10-PCS
0V5Q4ZZ	Destruction of Bilateral Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5S0ZZ	Destruction of Penis, Open Approach	PX	ICD-10-PCS
0V5S3ZZ	Destruction of Penis, Percutaneous Approach	PX	ICD-10-PCS
0V5S4ZZ	Destruction of Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5SXZZ	Destruction of Penis, External Approach	PX	ICD-10-PCS
0V5T0ZZ	Destruction of Prepuce, Open Approach	PX	ICD-10-PCS
0V5T3ZZ	Destruction of Prepuce, Percutaneous Approach	PX	ICD-10-PCS
0V5T4ZZ	Destruction of Prepuce, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V5TXZZ	Destruction of Prepuce, External Approach	PX	ICD-10-PCS
0V7N0DZ	Dilation of Right Vas Deferens with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0V7N0ZZ	Dilation of Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0V7N3DZ	Dilation of Right Vas Deferens with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0V7N3ZZ	Dilation of Right Vas Deferens, Percutaneous Approach	PX	ICD-10-PCS
0V7N4DZ	Dilation of Right Vas Deferens with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0V7N4ZZ	Dilation of Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V7P0DZ	Dilation of Left Vas Deferens with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0V7P0ZZ	Dilation of Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0V7P3DZ	Dilation of Left Vas Deferens with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0V7P3ZZ	Dilation of Left Vas Deferens, Percutaneous Approach	PX	ICD-10-PCS
0V7P4DZ	Dilation of Left Vas Deferens with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V7P4ZZ	Dilation of Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V7Q0DZ	Dilation of Bilateral Vas Deferens with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0V7Q0ZZ	Dilation of Bilateral Vas Deferens, Open Approach	PX	ICD-10-PCS
0V7Q3DZ	Dilation of Bilateral Vas Deferens with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0V7Q3ZZ	Dilation of Bilateral Vas Deferens, Percutaneous Approach	PX	ICD-10-PCS
0V7Q4DZ	Dilation of Bilateral Vas Deferens with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V7Q4ZZ	Dilation of Bilateral Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9000Z	Drainage of Prostate with Drainage Device, Open Approach	PX	ICD-10-PCS
0V900ZZ	Drainage of Prostate, Open Approach	PX	ICD-10-PCS
0V9040Z	Drainage of Prostate with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V904ZZ	Drainage of Prostate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9070Z	Drainage of Prostate with Drainage Device, Via Natural or Artificial Opening	PX	ICD-10-PCS
0V907ZZ	Drainage of Prostate, Via Natural or Artificial Opening	PX	ICD-10-PCS
0V9080Z	Drainage of Prostate with Drainage Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0V908ZZ	Drainage of Prostate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0V9100Z	Drainage of Right Seminal Vesicle with Drainage Device, Open Approach	PX	ICD-10-PCS
0V910ZZ	Drainage of Right Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0V9140Z	Drainage of Right Seminal Vesicle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V914ZZ	Drainage of Right Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9200Z	Drainage of Left Seminal Vesicle with Drainage Device, Open Approach	PX	ICD-10-PCS
0V920ZZ	Drainage of Left Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0V9240Z	Drainage of Left Seminal Vesicle with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V924ZZ	Drainage of Left Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9300Z	Drainage of Bilateral Seminal Vesicles with Drainage Device, Open Approach	PX	ICD-10-PCS
0V930ZZ	Drainage of Bilateral Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0V9340Z	Drainage of Bilateral Seminal Vesicles with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V934ZZ	Drainage of Bilateral Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9500Z	Drainage of Scrotum with Drainage Device, Open Approach	PX	ICD-10-PCS
0V950ZZ	Drainage of Scrotum, Open Approach	PX	ICD-10-PCS
0V9540Z	Drainage of Scrotum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V954ZZ	Drainage of Scrotum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9600Z	Drainage of Right Tunica Vaginalis with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0V960ZZ	Drainage of Right Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0V9640Z	Drainage of Right Tunica Vaginalis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V964ZZ	Drainage of Right Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9700Z	Drainage of Left Tunica Vaginalis with Drainage Device, Open Approach	PX	ICD-10-PCS
0V970ZZ	Drainage of Left Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0V9740Z	Drainage of Left Tunica Vaginalis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V974ZZ	Drainage of Left Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9900Z	Drainage of Right Testis with Drainage Device, Open Approach	PX	ICD-10-PCS
0V990ZZ	Drainage of Right Testis, Open Approach	PX	ICD-10-PCS
0V9940Z	Drainage of Right Testis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V994ZZ	Drainage of Right Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9B00Z	Drainage of Left Testis with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9B0ZZ	Drainage of Left Testis, Open Approach	PX	ICD-10-PCS
0V9B40Z	Drainage of Left Testis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9B4ZZ	Drainage of Left Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9C00Z	Drainage of Bilateral Testes with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9C0ZZ	Drainage of Bilateral Testes, Open Approach	PX	ICD-10-PCS
0V9C40Z	Drainage of Bilateral Testes with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9C4ZZ	Drainage of Bilateral Testes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9F00Z	Drainage of Right Spermatic Cord with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9F0ZZ	Drainage of Right Spermatic Cord, Open Approach	PX	ICD-10-PCS
0V9F40Z	Drainage of Right Spermatic Cord with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9F4ZZ	Drainage of Right Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9G00Z	Drainage of Left Spermatic Cord with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9G0ZZ	Drainage of Left Spermatic Cord, Open Approach	PX	ICD-10-PCS
0V9G40Z	Drainage of Left Spermatic Cord with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9G4ZZ	Drainage of Left Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9H00Z	Drainage of Bilateral Spermatic Cords with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9H0ZZ	Drainage of Bilateral Spermatic Cords, Open Approach	PX	ICD-10-PCS
0V9H40Z	Drainage of Bilateral Spermatic Cords with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9H4ZZ	Drainage of Bilateral Spermatic Cords, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9J00Z	Drainage of Right Epididymis with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9J0ZZ	Drainage of Right Epididymis, Open Approach	PX	ICD-10-PCS
0V9J40Z	Drainage of Right Epididymis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9J4ZZ	Drainage of Right Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9K00Z	Drainage of Left Epididymis with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0V9K0ZZ	Drainage of Left Epididymis, Open Approach	PX	ICD-10-PCS
0V9K40Z	Drainage of Left Epididymis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9K4ZZ	Drainage of Left Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9L00Z	Drainage of Bilateral Epididymis with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9L0ZZ	Drainage of Bilateral Epididymis, Open Approach	PX	ICD-10-PCS
0V9L40Z	Drainage of Bilateral Epididymis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9L4ZZ	Drainage of Bilateral Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9N00Z	Drainage of Right Vas Deferens with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9N0ZZ	Drainage of Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0V9N40Z	Drainage of Right Vas Deferens with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9N4ZZ	Drainage of Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9P00Z	Drainage of Left Vas Deferens with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9P0ZZ	Drainage of Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0V9P40Z	Drainage of Left Vas Deferens with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9P4ZZ	Drainage of Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9Q00Z	Drainage of Bilateral Vas Deferens with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9Q0ZZ	Drainage of Bilateral Vas Deferens, Open Approach	PX	ICD-10-PCS
0V9Q40Z	Drainage of Bilateral Vas Deferens with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9Q4ZZ	Drainage of Bilateral Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9S00Z	Drainage of Penis with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9S0ZZ	Drainage of Penis, Open Approach	PX	ICD-10-PCS
0V9S40Z	Drainage of Penis with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9S4ZZ	Drainage of Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9SX0Z	Drainage of Penis with Drainage Device, External Approach	PX	ICD-10-PCS
0V9SXZZ	Drainage of Penis, External Approach	PX	ICD-10-PCS
0V9T00Z	Drainage of Prepuce with Drainage Device, Open Approach	PX	ICD-10-PCS
0V9T0ZZ	Drainage of Prepuce, Open Approach	PX	ICD-10-PCS
0V9T40Z	Drainage of Prepuce with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9T4ZZ	Drainage of Prepuce, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0V9TX0Z	Drainage of Prepuce with Drainage Device, External Approach	PX	ICD-10-PCS
0V9TXZZ	Drainage of Prepuce, External Approach	PX	ICD-10-PCS
0VB00ZZ	Excision of Prostate, Open Approach	PX	ICD-10-PCS
0VB03ZZ	Excision of Prostate, Percutaneous Approach	PX	ICD-10-PCS
0VB04ZZ	Excision of Prostate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VB07ZZ	Excision of Prostate, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VB08ZZ	Excision of Prostate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VB10ZZ	Excision of Right Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0VB13ZZ	Excision of Right Seminal Vesicle, Percutaneous Approach	PX	ICD-10-PCS
0VB14ZZ	Excision of Right Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VB20ZZ	Excision of Left Seminal Vesicle, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VB23ZZ	Excision of Left Seminal Vesicle, Percutaneous Approach	PX	ICD-10-PCS
0VB24ZZ	Excision of Left Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VB30ZZ	Excision of Bilateral Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VB33ZZ	Excision of Bilateral Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VB34ZZ	Excision of Bilateral Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VB50ZZ	Excision of Scrotum, Open Approach	PX	ICD-10-PCS
0VB54ZZ	Excision of Scrotum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VB60ZZ	Excision of Right Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VB63ZZ	Excision of Right Tunica Vaginalis, Percutaneous Approach	PX	ICD-10-PCS
0VB64ZZ	Excision of Right Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VB70ZZ	Excision of Left Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VB73ZZ	Excision of Left Tunica Vaginalis, Percutaneous Approach	PX	ICD-10-PCS
0VB74ZZ	Excision of Left Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VB90ZZ	Excision of Right Testis, Open Approach	PX	ICD-10-PCS
0VB93ZZ	Excision of Right Testis, Percutaneous Approach	PX	ICD-10-PCS
0VB94ZZ	Excision of Right Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBB0ZZ	Excision of Left Testis, Open Approach	PX	ICD-10-PCS
0VBB3ZZ	Excision of Left Testis, Percutaneous Approach	PX	ICD-10-PCS
0VBB4ZZ	Excision of Left Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBC0ZZ	Excision of Bilateral Testes, Open Approach	PX	ICD-10-PCS
0VBC3ZZ	Excision of Bilateral Testes, Percutaneous Approach	PX	ICD-10-PCS
0VBC4ZZ	Excision of Bilateral Testes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBF0ZZ	Excision of Right Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VBF3ZZ	Excision of Right Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VBF4ZZ	Excision of Right Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBF8ZZ	Excision of Right Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VBG0ZZ	Excision of Left Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VBG3ZZ	Excision of Left Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VBG4ZZ	Excision of Left Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBG8ZZ	Excision of Left Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VBH0ZZ	Excision of Bilateral Spermatic Cords, Open Approach	PX	ICD-10-PCS
0VBH3ZZ	Excision of Bilateral Spermatic Cords, Percutaneous Approach	PX	ICD-10-PCS
0VBH4ZZ	Excision of Bilateral Spermatic Cords, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBH8ZZ	Excision of Bilateral Spermatic Cords, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VBJ0ZZ	Excision of Right Epididymis, Open Approach	PX	ICD-10-PCS
0VBJ3ZZ	Excision of Right Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VBJ4ZZ	Excision of Right Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBJ8ZZ	Excision of Right Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VBK0ZZ	Excision of Left Epididymis, Open Approach	PX	ICD-10-PCS
0VBK3ZZ	Excision of Left Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VBK4ZZ	Excision of Left Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBK8ZZ	Excision of Left Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VBL0ZZ	Excision of Bilateral Epididymis, Open Approach	PX	ICD-10-PCS
0VBL3ZZ	Excision of Bilateral Epididymis, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VBL4ZZ	Excision of Bilateral Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBL8ZZ	Excision of Bilateral Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VBN0ZZ	Excision of Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0VBN4ZZ	Excision of Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBP0ZZ	Excision of Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0VBP4ZZ	Excision of Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBQ0ZZ	Excision of Bilateral Vas Deferens, Open Approach	PX	ICD-10-PCS
0VBQ4ZZ	Excision of Bilateral Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBS0ZZ	Excision of Penis, Open Approach	PX	ICD-10-PCS
0VBS3ZZ	Excision of Penis, Percutaneous Approach	PX	ICD-10-PCS
0VBS4ZZ	Excision of Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBSXZZ	Excision of Penis, External Approach	PX	ICD-10-PCS
0VBT0ZZ	Excision of Prepuce, Open Approach	PX	ICD-10-PCS
0VBT3ZZ	Excision of Prepuce, Percutaneous Approach	PX	ICD-10-PCS
0VBT4ZZ	Excision of Prepuce, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VBTXZZ	Excision of Prepuce, External Approach	PX	ICD-10-PCS
0VC00ZZ	Extirpation of Matter from Prostate, Open Approach	PX	ICD-10-PCS
0VC03ZZ	Extirpation of Matter from Prostate, Percutaneous Approach	PX	ICD-10-PCS
0VC04ZZ	Extirpation of Matter from Prostate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VC07ZZ	Extirpation of Matter from Prostate, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VC08ZZ	Extirpation of Matter from Prostate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VC10ZZ	Extirpation of Matter from Right Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0VC13ZZ	Extirpation of Matter from Right Seminal Vesicle, Percutaneous Approach	PX	ICD-10-PCS
0VC14ZZ	Extirpation of Matter from Right Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VC20ZZ	Extirpation of Matter from Left Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0VC23ZZ	Extirpation of Matter from Left Seminal Vesicle, Percutaneous Approach	PX	ICD-10-PCS
0VC24ZZ	Extirpation of Matter from Left Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VC30ZZ	Extirpation of Matter from Bilateral Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VC33ZZ	Extirpation of Matter from Bilateral Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VC34ZZ	Extirpation of Matter from Bilateral Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VC50ZZ	Extirpation of Matter from Scrotum, Open Approach	PX	ICD-10-PCS
0VC54ZZ	Extirpation of Matter from Scrotum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VC60ZZ	Extirpation of Matter from Right Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VC64ZZ	Extirpation of Matter from Right Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VC70ZZ	Extirpation of Matter from Left Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VC74ZZ	Extirpation of Matter from Left Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VC90ZZ	Extirpation of Matter from Right Testis, Open Approach	PX	ICD-10-PCS
0VC93ZZ	Extirpation of Matter from Right Testis, Percutaneous Approach	PX	ICD-10-PCS
0VC94ZZ	Extirpation of Matter from Right Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VCB0ZZ	Extirpation of Matter from Left Testis, Open Approach	PX	ICD-10-PCS
0VCB3ZZ	Extirpation of Matter from Left Testis, Percutaneous Approach	PX	ICD-10-PCS
0VCB4ZZ	Extirpation of Matter from Left Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCC0ZZ	Extirpation of Matter from Bilateral Testes, Open Approach	PX	ICD-10-PCS
0VCC3ZZ	Extirpation of Matter from Bilateral Testes, Percutaneous Approach	PX	ICD-10-PCS
0VCC4ZZ	Extirpation of Matter from Bilateral Testes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCF0ZZ	Extirpation of Matter from Right Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VCF3ZZ	Extirpation of Matter from Right Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VCF4ZZ	Extirpation of Matter from Right Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCG0ZZ	Extirpation of Matter from Left Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VCG3ZZ	Extirpation of Matter from Left Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VCG4ZZ	Extirpation of Matter from Left Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCH0ZZ	Extirpation of Matter from Bilateral Spermatic Cords, Open Approach	PX	ICD-10-PCS
0VCH3ZZ	Extirpation of Matter from Bilateral Spermatic Cords, Percutaneous Approach	PX	ICD-10-PCS
0VCH4ZZ	Extirpation of Matter from Bilateral Spermatic Cords, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCJ0ZZ	Extirpation of Matter from Right Epididymis, Open Approach	PX	ICD-10-PCS
0VCJ3ZZ	Extirpation of Matter from Right Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VCJ4ZZ	Extirpation of Matter from Right Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCK0ZZ	Extirpation of Matter from Left Epididymis, Open Approach	PX	ICD-10-PCS
0VCK3ZZ	Extirpation of Matter from Left Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VCK4ZZ	Extirpation of Matter from Left Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCL0ZZ	Extirpation of Matter from Bilateral Epididymis, Open Approach	PX	ICD-10-PCS
0VCL3ZZ	Extirpation of Matter from Bilateral Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VCL4ZZ	Extirpation of Matter from Bilateral Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCN0ZZ	Extirpation of Matter from Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0VCN4ZZ	Extirpation of Matter from Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCP0ZZ	Extirpation of Matter from Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0VCP4ZZ	Extirpation of Matter from Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCQ0ZZ	Extirpation of Matter from Bilateral Vas Deferens, Open Approach	PX	ICD-10-PCS
0VCQ4ZZ	Extirpation of Matter from Bilateral Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCS0ZZ	Extirpation of Matter from Penis, Open Approach	PX	ICD-10-PCS
0VCS3ZZ	Extirpation of Matter from Penis, Percutaneous Approach	PX	ICD-10-PCS
0VCS4ZZ	Extirpation of Matter from Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCT0ZZ	Extirpation of Matter from Prepuce, Open Approach	PX	ICD-10-PCS
0VCT3ZZ	Extirpation of Matter from Prepuce, Percutaneous Approach	PX	ICD-10-PCS
0VCT4ZZ	Extirpation of Matter from Prepuce, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VCTXZZ	Extirpation of Matter from Prepuce, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VH001Z	Insertion of Radioactive Element into Prostate, Open Approach	PX	ICD-10-PCS
0VH041Z	Insertion of Radioactive Element into Prostate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VH403Z	Insertion of Infusion Device into Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VH40YZ	Insertion of Other Device into Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VH443Z	Insertion of Infusion Device into Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VH44YZ	Insertion of Other Device into Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VH803Z	Insertion of Infusion Device into Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VH80YZ	Insertion of Other Device into Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VH843Z	Insertion of Infusion Device into Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VH84YZ	Insertion of Other Device into Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VHD01Z	Insertion of Radioactive Element into Testis, Open Approach	PX	ICD-10-PCS
0VHD03Z	Insertion of Infusion Device into Testis, Open Approach	PX	ICD-10-PCS
0VHD0YZ	Insertion of Other Device into Testis, Open Approach	PX	ICD-10-PCS
0VHD41Z	Insertion of Radioactive Element into Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VHD43Z	Insertion of Infusion Device into Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VHD4YZ	Insertion of Other Device into Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VHM03Z	Insertion of Infusion Device into Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VHM0YZ	Insertion of Other Device into Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VHM43Z	Insertion of Infusion Device into Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VHM4YZ	Insertion of Other Device into Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VHR03Z	Insertion of Infusion Device into Vas Deferens, Open Approach	PX	ICD-10-PCS
0VHR0YZ	Insertion of Other Device into Vas Deferens, Open Approach	PX	ICD-10-PCS
0VHR43Z	Insertion of Infusion Device into Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VHR4YZ	Insertion of Other Device into Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VHS03Z	Insertion of Infusion Device into Penis, Open Approach	PX	ICD-10-PCS
0VHS0YZ	Insertion of Other Device into Penis, Open Approach	PX	ICD-10-PCS
0VHS43Z	Insertion of Infusion Device into Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VHS4YZ	Insertion of Other Device into Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLF0CZ	Occlusion of Right Spermatic Cord with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0VLF0DZ	Occlusion of Right Spermatic Cord with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0VLF0ZZ	Occlusion of Right Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VLF4CZ	Occlusion of Right Spermatic Cord with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLF4DZ	Occlusion of Right Spermatic Cord with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VLF4ZZ	Occlusion of Right Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLG0CZ	Occlusion of Left Spermatic Cord with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0VLG0DZ	Occlusion of Left Spermatic Cord with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0VLG0ZZ	Occlusion of Left Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VLG4CZ	Occlusion of Left Spermatic Cord with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLG4DZ	Occlusion of Left Spermatic Cord with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLG4ZZ	Occlusion of Left Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLH0CZ	Occlusion of Bilateral Spermatic Cords with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0VLH0DZ	Occlusion of Bilateral Spermatic Cords with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0VLH0ZZ	Occlusion of Bilateral Spermatic Cords, Open Approach	PX	ICD-10-PCS
0VLH4CZ	Occlusion of Bilateral Spermatic Cords with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLH4DZ	Occlusion of Bilateral Spermatic Cords with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLH4ZZ	Occlusion of Bilateral Spermatic Cords, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLN0CZ	Occlusion of Right Vas Deferens with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0VLN0DZ	Occlusion of Right Vas Deferens with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0VLN0ZZ	Occlusion of Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0VLN3DZ	Occlusion of Right Vas Deferens with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0VLN4CZ	Occlusion of Right Vas Deferens with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLN4DZ	Occlusion of Right Vas Deferens with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLN4ZZ	Occlusion of Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLN8DZ	Occlusion of Right Vas Deferens with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VLP0CZ	Occlusion of Left Vas Deferens with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0VLP0DZ	Occlusion of Left Vas Deferens with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0VLP0ZZ	Occlusion of Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0VLP3DZ	Occlusion of Left Vas Deferens with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS
0VLP4CZ	Occlusion of Left Vas Deferens with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLP4DZ	Occlusion of Left Vas Deferens with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLP4ZZ	Occlusion of Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLP8DZ	Occlusion of Left Vas Deferens with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VLQ0CZ	Occlusion of Bilateral Vas Deferens with Extraluminal Device, Open Approach	PX	ICD-10-PCS
0VLQ0DZ	Occlusion of Bilateral Vas Deferens with Intraluminal Device, Open Approach	PX	ICD-10-PCS
0VLQ0ZZ	Occlusion of Bilateral Vas Deferens, Open Approach	PX	ICD-10-PCS
0VLQ3DZ	Occlusion of Bilateral Vas Deferens with Intraluminal Device, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VLQ4CZ	Occlusion of Bilateral Vas Deferens with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLQ4DZ	Occlusion of Bilateral Vas Deferens with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLQ4ZZ	Occlusion of Bilateral Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VLQ8DZ	Occlusion of Bilateral Vas Deferens with Intraluminal Device, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VM5XZZ	Reattachment of Scrotum, External Approach	PX	ICD-10-PCS
0VM60ZZ	Reattachment of Right Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VM64ZZ	Reattachment of Right Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VM70ZZ	Reattachment of Left Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VM74ZZ	Reattachment of Left Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VM90ZZ	Reattachment of Right Testis, Open Approach	PX	ICD-10-PCS
0VM94ZZ	Reattachment of Right Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VMB0ZZ	Reattachment of Left Testis, Open Approach	PX	ICD-10-PCS
0VMB4ZZ	Reattachment of Left Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VMC0ZZ	Reattachment of Bilateral Testes, Open Approach	PX	ICD-10-PCS
0VMC4ZZ	Reattachment of Bilateral Testes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VMF0ZZ	Reattachment of Right Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VMF4ZZ	Reattachment of Right Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VMG0ZZ	Reattachment of Left Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VMG4ZZ	Reattachment of Left Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VMH0ZZ	Reattachment of Bilateral Spermatic Cords, Open Approach	PX	ICD-10-PCS
0VMH4ZZ	Reattachment of Bilateral Spermatic Cords, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VMSXZZ	Reattachment of Penis, External Approach	PX	ICD-10-PCS
0VN00ZZ	Release Prostate, Open Approach	PX	ICD-10-PCS
0VN03ZZ	Release Prostate, Percutaneous Approach	PX	ICD-10-PCS
0VN04ZZ	Release Prostate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VN07ZZ	Release Prostate, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VN08ZZ	Release Prostate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VN10ZZ	Release Right Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0VN13ZZ	Release Right Seminal Vesicle, Percutaneous Approach	PX	ICD-10-PCS
0VN14ZZ	Release Right Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VN20ZZ	Release Left Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0VN23ZZ	Release Left Seminal Vesicle, Percutaneous Approach	PX	ICD-10-PCS
0VN24ZZ	Release Left Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VN30ZZ	Release Bilateral Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VN33ZZ	Release Bilateral Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VN34ZZ	Release Bilateral Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VN50ZZ	Release Scrotum, Open Approach	PX	ICD-10-PCS
0VN53ZZ	Release Scrotum, Percutaneous Approach	PX	ICD-10-PCS
0VN54ZZ	Release Scrotum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VN5XZZ	Release Scrotum, External Approach	PX	ICD-10-PCS
0VN60ZZ	Release Right Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VN63ZZ	Release Right Tunica Vaginalis, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VN64ZZ	Release Right Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VN70ZZ	Release Left Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VN73ZZ	Release Left Tunica Vaginalis, Percutaneous Approach	PX	ICD-10-PCS
0VN74ZZ	Release Left Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VN90ZZ	Release Right Testis, Open Approach	PX	ICD-10-PCS
0VN94ZZ	Release Right Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNB0ZZ	Release Left Testis, Open Approach	PX	ICD-10-PCS
0VNB4ZZ	Release Left Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNC0ZZ	Release Bilateral Testes, Open Approach	PX	ICD-10-PCS
0VNC4ZZ	Release Bilateral Testes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNF0ZZ	Release Right Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VNF3ZZ	Release Right Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VNF4ZZ	Release Right Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNF8ZZ	Release Right Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VNG0ZZ	Release Left Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VNG3ZZ	Release Left Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VNG4ZZ	Release Left Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNG8ZZ	Release Left Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VNH0ZZ	Release Bilateral Spermatic Cords, Open Approach	PX	ICD-10-PCS
0VNH3ZZ	Release Bilateral Spermatic Cords, Percutaneous Approach	PX	ICD-10-PCS
0VNH4ZZ	Release Bilateral Spermatic Cords, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNH8ZZ	Release Bilateral Spermatic Cords, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VNJ0ZZ	Release Right Epididymis, Open Approach	PX	ICD-10-PCS
0VNJ3ZZ	Release Right Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VNJ4ZZ	Release Right Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNJ8ZZ	Release Right Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VNK0ZZ	Release Left Epididymis, Open Approach	PX	ICD-10-PCS
0VNK3ZZ	Release Left Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VNK4ZZ	Release Left Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNK8ZZ	Release Left Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VNL0ZZ	Release Bilateral Epididymis, Open Approach	PX	ICD-10-PCS
0VNL3ZZ	Release Bilateral Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VNL4ZZ	Release Bilateral Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNL8ZZ	Release Bilateral Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VNN0ZZ	Release Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0VNN3ZZ	Release Right Vas Deferens, Percutaneous Approach	PX	ICD-10-PCS
0VNN4ZZ	Release Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNN8ZZ	Release Right Vas Deferens, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VNP0ZZ	Release Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0VNP3ZZ	Release Left Vas Deferens, Percutaneous Approach	PX	ICD-10-PCS
0VNP4ZZ	Release Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNP8ZZ	Release Left Vas Deferens, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VNQ0ZZ	Release Bilateral Vas Deferens, Open Approach	PX	ICD-10-PCS
0VNQ3ZZ	Release Bilateral Vas Deferens, Percutaneous Approach	PX	ICD-10-PCS
0VNQ4ZZ	Release Bilateral Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VNQ8ZZ	Release Bilateral Vas Deferens, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VNS0ZZ	Release Penis, Open Approach	PX	ICD-10-PCS
0VNS3ZZ	Release Penis, Percutaneous Approach	PX	ICD-10-PCS
0VNS4ZZ	Release Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VNSXZZ	Release Penis, External Approach	PX	ICD-10-PCS
0VNT0ZZ	Release Prepuce, Open Approach	PX	ICD-10-PCS
0VNT4ZZ	Release Prepuce, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP400Z	Removal of Drainage Device from Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VP401Z	Removal of Radioactive Element from Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VP403Z	Removal of Infusion Device from Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VP407Z	Removal of Autologous Tissue Substitute from Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VP40JZ	Removal of Synthetic Substitute from Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VP40KZ	Removal of Nonautologous Tissue Substitute from Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VP40YZ	Removal of Other Device from Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VP430Z	Removal of Drainage Device from Prostate and Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VP433Z	Removal of Infusion Device from Prostate and Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VP437Z	Removal of Autologous Tissue Substitute from Prostate and Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VP43JZ	Removal of Synthetic Substitute from Prostate and Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VP43KZ	Removal of Nonautologous Tissue Substitute from Prostate and Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VP440Z	Removal of Drainage Device from Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP441Z	Removal of Radioactive Element from Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP443Z	Removal of Infusion Device from Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP447Z	Removal of Autologous Tissue Substitute from Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP44JZ	Removal of Synthetic Substitute from Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP44KZ	Removal of Nonautologous Tissue Substitute from Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP44YZ	Removal of Other Device from Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP477Z	Removal of Autologous Tissue Substitute from Prostate and Seminal Vesicles, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VP47JZ	Removal of Synthetic Substitute from Prostate and Seminal Vesicles, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VP47KZ	Removal of Nonautologous Tissue Substitute from Prostate and Seminal Vesicles, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VP487Z	Removal of Autologous Tissue Substitute from Prostate and Seminal Vesicles, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VP48JZ	Removal of Synthetic Substitute from Prostate and Seminal Vesicles, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VP48KZ	Removal of Nonautologous Tissue Substitute from Prostate and Seminal Vesicles, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VP800Z	Removal of Drainage Device from Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VP803Z	Removal of Infusion Device from Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VP807Z	Removal of Autologous Tissue Substitute from Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VP80JZ	Removal of Synthetic Substitute from Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VP80KZ	Removal of Nonautologous Tissue Substitute from Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VP80YZ	Removal of Other Device from Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VP840Z	Removal of Drainage Device from Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP843Z	Removal of Infusion Device from Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP847Z	Removal of Autologous Tissue Substitute from Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP84JZ	Removal of Synthetic Substitute from Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP84KZ	Removal of Nonautologous Tissue Substitute from Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VP84YZ	Removal of Other Device from Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPD00Z	Removal of Drainage Device from Testis, Open Approach	PX	ICD-10-PCS
0VPD03Z	Removal of Infusion Device from Testis, Open Approach	PX	ICD-10-PCS
0VPD07Z	Removal of Autologous Tissue Substitute from Testis, Open Approach	PX	ICD-10-PCS
0VPD0JZ	Removal of Synthetic Substitute from Testis, Open Approach	PX	ICD-10-PCS
0VPD0KZ	Removal of Nonautologous Tissue Substitute from Testis, Open Approach	PX	ICD-10-PCS
0VPD0YZ	Removal of Other Device from Testis, Open Approach	PX	ICD-10-PCS
0VPD30Z	Removal of Drainage Device from Testis, Percutaneous Approach	PX	ICD-10-PCS
0VPD33Z	Removal of Infusion Device from Testis, Percutaneous Approach	PX	ICD-10-PCS
0VPD37Z	Removal of Autologous Tissue Substitute from Testis, Percutaneous Approach	PX	ICD-10-PCS
0VPD3JZ	Removal of Synthetic Substitute from Testis, Percutaneous Approach	PX	ICD-10-PCS
0VPD3KZ	Removal of Nonautologous Tissue Substitute from Testis, Percutaneous Approach	PX	ICD-10-PCS
0VPD40Z	Removal of Drainage Device from Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPD43Z	Removal of Infusion Device from Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VPD47Z	Removal of Autologous Tissue Substitute from Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPD4JZ	Removal of Synthetic Substitute from Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPD4KZ	Removal of Nonautologous Tissue Substitute from Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPD4YZ	Removal of Other Device from Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPD77Z	Removal of Autologous Tissue Substitute from Testis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VPD7JZ	Removal of Synthetic Substitute from Testis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VPD7KZ	Removal of Nonautologous Tissue Substitute from Testis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VPD87Z	Removal of Autologous Tissue Substitute from Testis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VPD8JZ	Removal of Synthetic Substitute from Testis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VPD8KZ	Removal of Nonautologous Tissue Substitute from Testis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VPM00Z	Removal of Drainage Device from Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VPM03Z	Removal of Infusion Device from Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VPM07Z	Removal of Autologous Tissue Substitute from Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VPM0CZ	Removal of Extraluminal Device from Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VPM0JZ	Removal of Synthetic Substitute from Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VPM0KZ	Removal of Nonautologous Tissue Substitute from Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VPM0YZ	Removal of Other Device from Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VPM30Z	Removal of Drainage Device from Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VPM33Z	Removal of Infusion Device from Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VPM37Z	Removal of Autologous Tissue Substitute from Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VPM3CZ	Removal of Extraluminal Device from Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VPM3JZ	Removal of Synthetic Substitute from Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VPM3KZ	Removal of Nonautologous Tissue Substitute from Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VPM40Z	Removal of Drainage Device from Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VPM43Z	Removal of Infusion Device from Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPM47Z	Removal of Autologous Tissue Substitute from Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPM4CZ	Removal of Extraluminal Device from Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPM4JZ	Removal of Synthetic Substitute from Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPM4KZ	Removal of Nonautologous Tissue Substitute from Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPM4YZ	Removal of Other Device from Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPM77Z	Removal of Autologous Tissue Substitute from Epididymis and Spermatic Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VPM7CZ	Removal of Extraluminal Device from Epididymis and Spermatic Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VPM7JZ	Removal of Synthetic Substitute from Epididymis and Spermatic Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VPM7KZ	Removal of Nonautologous Tissue Substitute from Epididymis and Spermatic Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VPM87Z	Removal of Autologous Tissue Substitute from Epididymis and Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VPM8CZ	Removal of Extraluminal Device from Epididymis and Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VPM8JZ	Removal of Synthetic Substitute from Epididymis and Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VPM8KZ	Removal of Nonautologous Tissue Substitute from Epididymis and Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VPR00Z	Removal of Drainage Device from Vas Deferens, Open Approach	PX	ICD-10-PCS
0VPR03Z	Removal of Infusion Device from Vas Deferens, Open Approach	PX	ICD-10-PCS
0VPR07Z	Removal of Autologous Tissue Substitute from Vas Deferens, Open Approach	PX	ICD-10-PCS
0VPR0CZ	Removal of Extraluminal Device from Vas Deferens, Open Approach	PX	ICD-10-PCS
0VPR0DZ	Removal of Intraluminal Device from Vas Deferens, Open Approach	PX	ICD-10-PCS
0VPR0JZ	Removal of Synthetic Substitute from Vas Deferens, Open Approach	PX	ICD-10-PCS
0VPR0KZ	Removal of Nonautologous Tissue Substitute from Vas Deferens, Open Approach	PX	ICD-10-PCS
0VPR0YZ	Removal of Other Device from Vas Deferens, Open Approach	PX	ICD-10-PCS
0VPR3DZ	Removal of Intraluminal Device from Vas Deferens, Percutaneous Approach	PX	ICD-10-PCS
0VPR40Z	Removal of Drainage Device from Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPR43Z	Removal of Infusion Device from Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPR47Z	Removal of Autologous Tissue Substitute from Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VPR4CZ	Removal of Extraluminal Device from Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPR4DZ	Removal of Intraluminal Device from Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPR4JZ	Removal of Synthetic Substitute from Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPR4KZ	Removal of Nonautologous Tissue Substitute from Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPR4YZ	Removal of Other Device from Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPS00Z	Removal of Drainage Device from Penis, Open Approach	PX	ICD-10-PCS
0VPS03Z	Removal of Infusion Device from Penis, Open Approach	PX	ICD-10-PCS
0VPS07Z	Removal of Autologous Tissue Substitute from Penis, Open Approach	PX	ICD-10-PCS
0VPS0JZ	Removal of Synthetic Substitute from Penis, Open Approach	PX	ICD-10-PCS
0VPS0KZ	Removal of Nonautologous Tissue Substitute from Penis, Open Approach	PX	ICD-10-PCS
0VPS0YZ	Removal of Other Device from Penis, Open Approach	PX	ICD-10-PCS
0VPS30Z	Removal of Drainage Device from Penis, Percutaneous Approach	PX	ICD-10-PCS
0VPS33Z	Removal of Infusion Device from Penis, Percutaneous Approach	PX	ICD-10-PCS
0VPS37Z	Removal of Autologous Tissue Substitute from Penis, Percutaneous Approach	PX	ICD-10-PCS
0VPS3JZ	Removal of Synthetic Substitute from Penis, Percutaneous Approach	PX	ICD-10-PCS
0VPS3KZ	Removal of Nonautologous Tissue Substitute from Penis, Percutaneous Approach	PX	ICD-10-PCS
0VPS40Z	Removal of Drainage Device from Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPS43Z	Removal of Infusion Device from Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPS47Z	Removal of Autologous Tissue Substitute from Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPS4JZ	Removal of Synthetic Substitute from Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPS4KZ	Removal of Nonautologous Tissue Substitute from Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPS4YZ	Removal of Other Device from Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VPS77Z	Removal of Autologous Tissue Substitute from Penis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VPS7JZ	Removal of Synthetic Substitute from Penis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VPS7KZ	Removal of Nonautologous Tissue Substitute from Penis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VPS87Z	Removal of Autologous Tissue Substitute from Penis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VPS8JZ	Removal of Synthetic Substitute from Penis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VPS8KZ	Removal of Nonautologous Tissue Substitute from Penis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VQ00ZZ	Repair Prostate, Open Approach	PX	ICD-10-PCS
0VQ03ZZ	Repair Prostate, Percutaneous Approach	PX	ICD-10-PCS
0VQ04ZZ	Repair Prostate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQ07ZZ	Repair Prostate, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VQ08ZZ	Repair Prostate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VQ10ZZ	Repair Right Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0VQ13ZZ	Repair Right Seminal Vesicle, Percutaneous Approach	PX	ICD-10-PCS
0VQ14ZZ	Repair Right Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQ20ZZ	Repair Left Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0VQ23ZZ	Repair Left Seminal Vesicle, Percutaneous Approach	PX	ICD-10-PCS
0VQ24ZZ	Repair Left Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQ30ZZ	Repair Bilateral Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VQ33ZZ	Repair Bilateral Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VQ34ZZ	Repair Bilateral Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQ50ZZ	Repair Scrotum, Open Approach	PX	ICD-10-PCS
0VQ54ZZ	Repair Scrotum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQ60ZZ	Repair Right Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VQ64ZZ	Repair Right Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQ70ZZ	Repair Left Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VQ74ZZ	Repair Left Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQ90ZZ	Repair Right Testis, Open Approach	PX	ICD-10-PCS
0VQ93ZZ	Repair Right Testis, Percutaneous Approach	PX	ICD-10-PCS
0VQ94ZZ	Repair Right Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQB0ZZ	Repair Left Testis, Open Approach	PX	ICD-10-PCS
0VQB3ZZ	Repair Left Testis, Percutaneous Approach	PX	ICD-10-PCS
0VQB4ZZ	Repair Left Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQC0ZZ	Repair Bilateral Testes, Open Approach	PX	ICD-10-PCS
0VQC3ZZ	Repair Bilateral Testes, Percutaneous Approach	PX	ICD-10-PCS
0VQC4ZZ	Repair Bilateral Testes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQF0ZZ	Repair Right Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VQF3ZZ	Repair Right Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VQF4ZZ	Repair Right Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQF8ZZ	Repair Right Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VQG0ZZ	Repair Left Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VQG3ZZ	Repair Left Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VQG4ZZ	Repair Left Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQG8ZZ	Repair Left Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VQH0ZZ	Repair Bilateral Spermatic Cords, Open Approach	PX	ICD-10-PCS
0VQH3ZZ	Repair Bilateral Spermatic Cords, Percutaneous Approach	PX	ICD-10-PCS
0VQH4ZZ	Repair Bilateral Spermatic Cords, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQH8ZZ	Repair Bilateral Spermatic Cords, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VQJ0ZZ	Repair Right Epididymis, Open Approach	PX	ICD-10-PCS
0VQJ3ZZ	Repair Right Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VQJ4ZZ	Repair Right Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQJ8ZZ	Repair Right Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VQK0ZZ	Repair Left Epididymis, Open Approach	PX	ICD-10-PCS
0VQK3ZZ	Repair Left Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VQK4ZZ	Repair Left Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQK8ZZ	Repair Left Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VQL0ZZ	Repair Bilateral Epididymis, Open Approach	PX	ICD-10-PCS
0VQL3ZZ	Repair Bilateral Epididymis, Percutaneous Approach	PX	ICD-10-PCS
0VQL4ZZ	Repair Bilateral Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQL8ZZ	Repair Bilateral Epididymis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VQN0ZZ	Repair Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0VQN3ZZ	Repair Right Vas Deferens, Percutaneous Approach	PX	ICD-10-PCS
0VQN4ZZ	Repair Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQN8ZZ	Repair Right Vas Deferens, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VQP0ZZ	Repair Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0VQP3ZZ	Repair Left Vas Deferens, Percutaneous Approach	PX	ICD-10-PCS
0VQP4ZZ	Repair Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQP8ZZ	Repair Left Vas Deferens, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VQQ0ZZ	Repair Bilateral Vas Deferens, Open Approach	PX	ICD-10-PCS
0VQQ3ZZ	Repair Bilateral Vas Deferens, Percutaneous Approach	PX	ICD-10-PCS
0VQQ4ZZ	Repair Bilateral Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQQ8ZZ	Repair Bilateral Vas Deferens, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VQS0ZZ	Repair Penis, Open Approach	PX	ICD-10-PCS
0VQS3ZZ	Repair Penis, Percutaneous Approach	PX	ICD-10-PCS
0VQS4ZZ	Repair Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQSXZZ	Repair Penis, External Approach	PX	ICD-10-PCS
0VQT0ZZ	Repair Prepuce, Open Approach	PX	ICD-10-PCS
0VQT3ZZ	Repair Prepuce, Percutaneous Approach	PX	ICD-10-PCS
0VQT4ZZ	Repair Prepuce, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VQTXZZ	Repair Prepuce, External Approach	PX	ICD-10-PCS
0VR90JZ	Replacement of Right Testis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VRB0JZ	Replacement of Left Testis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VRC0JZ	Replacement of Bilateral Testes with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VS90ZZ	Reposition Right Testis, Open Approach	PX	ICD-10-PCS
0VS93ZZ	Reposition Right Testis, Percutaneous Approach	PX	ICD-10-PCS
0VS94ZZ	Reposition Right Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VS98ZZ	Reposition Right Testis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VSB0ZZ	Reposition Left Testis, Open Approach	PX	ICD-10-PCS
0VSB3ZZ	Reposition Left Testis, Percutaneous Approach	PX	ICD-10-PCS
0VSB4ZZ	Reposition Left Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VSB8ZZ	Reposition Left Testis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VSC0ZZ	Reposition Bilateral Testes, Open Approach	PX	ICD-10-PCS
0VSC3ZZ	Reposition Bilateral Testes, Percutaneous Approach	PX	ICD-10-PCS
0VSC4ZZ	Reposition Bilateral Testes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VSC8ZZ	Reposition Bilateral Testes, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VSF0ZZ	Reposition Right Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VSF3ZZ	Reposition Right Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VSF4ZZ	Reposition Right Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VSF8ZZ	Reposition Right Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VSG0ZZ	Reposition Left Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VSG3ZZ	Reposition Left Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VSG4ZZ	Reposition Left Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VSG8ZZ	Reposition Left Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VSH0ZZ	Reposition Bilateral Spermatic Cords, Open Approach	PX	ICD-10-PCS
0VSH3ZZ	Reposition Bilateral Spermatic Cords, Percutaneous Approach	PX	ICD-10-PCS
0VSH4ZZ	Reposition Bilateral Spermatic Cords, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VSH8ZZ	Reposition Bilateral Spermatic Cords, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VT00ZZ	Resection of Prostate, Open Approach	PX	ICD-10-PCS
0VT04ZZ	Resection of Prostate, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VT07ZZ	Resection of Prostate, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VT08ZZ	Resection of Prostate, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VT10ZZ	Resection of Right Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0VT14ZZ	Resection of Right Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VT20ZZ	Resection of Left Seminal Vesicle, Open Approach	PX	ICD-10-PCS
0VT24ZZ	Resection of Left Seminal Vesicle, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VT30ZZ	Resection of Bilateral Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VT34ZZ	Resection of Bilateral Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VT50ZZ	Resection of Scrotum, Open Approach	PX	ICD-10-PCS
0VT54ZZ	Resection of Scrotum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VT60ZZ	Resection of Right Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VT64ZZ	Resection of Right Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VT70ZZ	Resection of Left Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VT74ZZ	Resection of Left Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VT90ZZ	Resection of Right Testis, Open Approach	PX	ICD-10-PCS
0VT94ZZ	Resection of Right Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTB0ZZ	Resection of Left Testis, Open Approach	PX	ICD-10-PCS
0VTB4ZZ	Resection of Left Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTC0ZZ	Resection of Bilateral Testes, Open Approach	PX	ICD-10-PCS
0VTC4ZZ	Resection of Bilateral Testes, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTF0ZZ	Resection of Right Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VTF4ZZ	Resection of Right Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTG0ZZ	Resection of Left Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VTG4ZZ	Resection of Left Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTH0ZZ	Resection of Bilateral Spermatic Cords, Open Approach	PX	ICD-10-PCS
0VTH4ZZ	Resection of Bilateral Spermatic Cords, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTJ0ZZ	Resection of Right Epididymis, Open Approach	PX	ICD-10-PCS
0VTJ4ZZ	Resection of Right Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTK0ZZ	Resection of Left Epididymis, Open Approach	PX	ICD-10-PCS
0VTK4ZZ	Resection of Left Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTL0ZZ	Resection of Bilateral Epididymis, Open Approach	PX	ICD-10-PCS
0VTL4ZZ	Resection of Bilateral Epididymis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTN0ZZ	Resection of Right Vas Deferens, Open Approach	PX	ICD-10-PCS
0VTN4ZZ	Resection of Right Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTP0ZZ	Resection of Left Vas Deferens, Open Approach	PX	ICD-10-PCS
0VTP4ZZ	Resection of Left Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VTQ0ZZ	Resection of Bilateral Vas Deferens, Open Approach	PX	ICD-10-PCS
0VTQ4ZZ	Resection of Bilateral Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTS0ZZ	Resection of Penis, Open Approach	PX	ICD-10-PCS
0VTS4ZZ	Resection of Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VTSXZZ	Resection of Penis, External Approach	PX	ICD-10-PCS
0VTT0ZZ	Resection of Prepuce, Open Approach	PX	ICD-10-PCS
0VTT4ZZ	Resection of Prepuce, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU107Z	Supplement Right Seminal Vesicle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU10JZ	Supplement Right Seminal Vesicle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VU10KZ	Supplement Right Seminal Vesicle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU147Z	Supplement Right Seminal Vesicle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU14JZ	Supplement Right Seminal Vesicle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU14KZ	Supplement Right Seminal Vesicle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU187Z	Supplement Right Seminal Vesicle with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU18JZ	Supplement Right Seminal Vesicle with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU18KZ	Supplement Right Seminal Vesicle with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU207Z	Supplement Left Seminal Vesicle with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU20JZ	Supplement Left Seminal Vesicle with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VU20KZ	Supplement Left Seminal Vesicle with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU247Z	Supplement Left Seminal Vesicle with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU24JZ	Supplement Left Seminal Vesicle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU24KZ	Supplement Left Seminal Vesicle with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU287Z	Supplement Left Seminal Vesicle with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU28JZ	Supplement Left Seminal Vesicle with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU28KZ	Supplement Left Seminal Vesicle with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU307Z	Supplement Bilateral Seminal Vesicles with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU30JZ	Supplement Bilateral Seminal Vesicles with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VU30KZ	Supplement Bilateral Seminal Vesicles with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU347Z	Supplement Bilateral Seminal Vesicles with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU34JZ	Supplement Bilateral Seminal Vesicles with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU34KZ	Supplement Bilateral Seminal Vesicles with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU387Z	Supplement Bilateral Seminal Vesicles with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU38JZ	Supplement Bilateral Seminal Vesicles with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU38KZ	Supplement Bilateral Seminal Vesicles with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU507Z	Supplement Scrotum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU50JZ	Supplement Scrotum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VU50KZ	Supplement Scrotum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU547Z	Supplement Scrotum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU54JZ	Supplement Scrotum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU54KZ	Supplement Scrotum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU5X7Z	Supplement Scrotum with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0VU5XJZ	Supplement Scrotum with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0VU5XKZ	Supplement Scrotum with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0VU607Z	Supplement Right Tunica Vaginalis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU60JZ	Supplement Right Tunica Vaginalis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VU60KZ	Supplement Right Tunica Vaginalis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU647Z	Supplement Right Tunica Vaginalis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU64JZ	Supplement Right Tunica Vaginalis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU64KZ	Supplement Right Tunica Vaginalis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU687Z	Supplement Right Tunica Vaginalis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU68JZ	Supplement Right Tunica Vaginalis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU68KZ	Supplement Right Tunica Vaginalis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU707Z	Supplement Left Tunica Vaginalis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VU70JZ	Supplement Left Tunica Vaginalis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VU70KZ	Supplement Left Tunica Vaginalis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU747Z	Supplement Left Tunica Vaginalis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU74JZ	Supplement Left Tunica Vaginalis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU74KZ	Supplement Left Tunica Vaginalis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VU787Z	Supplement Left Tunica Vaginalis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU78JZ	Supplement Left Tunica Vaginalis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU78KZ	Supplement Left Tunica Vaginalis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VU907Z	Supplement Right Testis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VU90JZ	Supplement Right Testis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VU90KZ	Supplement Right Testis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUB07Z	Supplement Left Testis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUB0JZ	Supplement Left Testis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUB0KZ	Supplement Left Testis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUC07Z	Supplement Bilateral Testes with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUC0JZ	Supplement Bilateral Testes with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUC0KZ	Supplement Bilateral Testes with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUF07Z	Supplement Right Spermatic Cord with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUF0JZ	Supplement Right Spermatic Cord with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUF0KZ	Supplement Right Spermatic Cord with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUF47Z	Supplement Right Spermatic Cord with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUF4JZ	Supplement Right Spermatic Cord with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUF4KZ	Supplement Right Spermatic Cord with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUF87Z	Supplement Right Spermatic Cord with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUF8JZ	Supplement Right Spermatic Cord with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUF8KZ	Supplement Right Spermatic Cord with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUG07Z	Supplement Left Spermatic Cord with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUG0JZ	Supplement Left Spermatic Cord with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VUG0KZ	Supplement Left Spermatic Cord with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUG47Z	Supplement Left Spermatic Cord with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUG4JZ	Supplement Left Spermatic Cord with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUG4KZ	Supplement Left Spermatic Cord with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUG87Z	Supplement Left Spermatic Cord with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUG8JZ	Supplement Left Spermatic Cord with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUG8KZ	Supplement Left Spermatic Cord with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUH07Z	Supplement Bilateral Spermatic Cords with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUH0JZ	Supplement Bilateral Spermatic Cords with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUH0KZ	Supplement Bilateral Spermatic Cords with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUH47Z	Supplement Bilateral Spermatic Cords with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUH4JZ	Supplement Bilateral Spermatic Cords with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUH4KZ	Supplement Bilateral Spermatic Cords with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUH87Z	Supplement Bilateral Spermatic Cords with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUH8JZ	Supplement Bilateral Spermatic Cords with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUH8KZ	Supplement Bilateral Spermatic Cords with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUJ07Z	Supplement Right Epididymis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUJ0JZ	Supplement Right Epididymis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUJ0KZ	Supplement Right Epididymis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUJ47Z	Supplement Right Epididymis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUJ4JZ	Supplement Right Epididymis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUJ4KZ	Supplement Right Epididymis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUJ87Z	Supplement Right Epididymis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VUJ8JZ	Supplement Right Epididymis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUJ8KZ	Supplement Right Epididymis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUK07Z	Supplement Left Epididymis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUK0JZ	Supplement Left Epididymis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUK0KZ	Supplement Left Epididymis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUK47Z	Supplement Left Epididymis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUK4JZ	Supplement Left Epididymis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUK4KZ	Supplement Left Epididymis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUK87Z	Supplement Left Epididymis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUK8JZ	Supplement Left Epididymis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUK8KZ	Supplement Left Epididymis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUL07Z	Supplement Bilateral Epididymis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUL0JZ	Supplement Bilateral Epididymis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUL0KZ	Supplement Bilateral Epididymis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUL47Z	Supplement Bilateral Epididymis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUL4JZ	Supplement Bilateral Epididymis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUL4KZ	Supplement Bilateral Epididymis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUL87Z	Supplement Bilateral Epididymis with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUL8JZ	Supplement Bilateral Epididymis with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUL8KZ	Supplement Bilateral Epididymis with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUN07Z	Supplement Right Vas Deferens with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUN0JZ	Supplement Right Vas Deferens with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUN0KZ	Supplement Right Vas Deferens with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUN47Z	Supplement Right Vas Deferens with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VUN4JZ	Supplement Right Vas Deferens with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUN4KZ	Supplement Right Vas Deferens with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUN87Z	Supplement Right Vas Deferens with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUN8JZ	Supplement Right Vas Deferens with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUN8KZ	Supplement Right Vas Deferens with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUP07Z	Supplement Left Vas Deferens with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUP0JZ	Supplement Left Vas Deferens with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUP0KZ	Supplement Left Vas Deferens with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUP47Z	Supplement Left Vas Deferens with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUP4JZ	Supplement Left Vas Deferens with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUP4KZ	Supplement Left Vas Deferens with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUP87Z	Supplement Left Vas Deferens with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUP8JZ	Supplement Left Vas Deferens with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUP8KZ	Supplement Left Vas Deferens with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUQ07Z	Supplement Bilateral Vas Deferens with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUQ0JZ	Supplement Bilateral Vas Deferens with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUQ0KZ	Supplement Bilateral Vas Deferens with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUQ47Z	Supplement Bilateral Vas Deferens with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUQ4JZ	Supplement Bilateral Vas Deferens with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUQ4KZ	Supplement Bilateral Vas Deferens with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUQ87Z	Supplement Bilateral Vas Deferens with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUQ8JZ	Supplement Bilateral Vas Deferens with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUQ8KZ	Supplement Bilateral Vas Deferens with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VUS07Z	Supplement Penis with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VUS0JZ	Supplement Penis with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUS0KZ	Supplement Penis with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUS47Z	Supplement Penis with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUS4JZ	Supplement Penis with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUS4KZ	Supplement Penis with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUT07Z	Supplement Prepuce with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUT0JZ	Supplement Prepuce with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0VUT0KZ	Supplement Prepuce with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0VUT47Z	Supplement Prepuce with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUT4JZ	Supplement Prepuce with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUT4KZ	Supplement Prepuce with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VUTX7Z	Supplement Prepuce with Autologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0VUTXJZ	Supplement Prepuce with Synthetic Substitute, External Approach	PX	ICD-10-PCS
0VUTXKZ	Supplement Prepuce with Nonautologous Tissue Substitute, External Approach	PX	ICD-10-PCS
0VW400Z	Revision of Drainage Device in Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VW403Z	Revision of Infusion Device in Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VW407Z	Revision of Autologous Tissue Substitute in Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VW40JZ	Revision of Synthetic Substitute in Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VW40KZ	Revision of Nonautologous Tissue Substitute in Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VW40YZ	Revision of Other Device in Prostate and Seminal Vesicles, Open Approach	PX	ICD-10-PCS
0VW430Z	Revision of Drainage Device in Prostate and Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VW433Z	Revision of Infusion Device in Prostate and Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VW437Z	Revision of Autologous Tissue Substitute in Prostate and Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VW43JZ	Revision of Synthetic Substitute in Prostate and Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VW43KZ	Revision of Nonautologous Tissue Substitute in Prostate and Seminal Vesicles, Percutaneous Approach	PX	ICD-10-PCS
0VW440Z	Revision of Drainage Device in Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VW443Z	Revision of Infusion Device in Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VW447Z	Revision of Autologous Tissue Substitute in Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VW44JZ	Revision of Synthetic Substitute in Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VW44KZ	Revision of Nonautologous Tissue Substitute in Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VW44YZ	Revision of Other Device in Prostate and Seminal Vesicles, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VW470Z	Revision of Drainage Device in Prostate and Seminal Vesicles, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VW473Z	Revision of Infusion Device in Prostate and Seminal Vesicles, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VW477Z	Revision of Autologous Tissue Substitute in Prostate and Seminal Vesicles, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VW47JZ	Revision of Synthetic Substitute in Prostate and Seminal Vesicles, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VW47KZ	Revision of Nonautologous Tissue Substitute in Prostate and Seminal Vesicles, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VW480Z	Revision of Drainage Device in Prostate and Seminal Vesicles, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VW483Z	Revision of Infusion Device in Prostate and Seminal Vesicles, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VW487Z	Revision of Autologous Tissue Substitute in Prostate and Seminal Vesicles, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VW48JZ	Revision of Synthetic Substitute in Prostate and Seminal Vesicles, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VW48KZ	Revision of Nonautologous Tissue Substitute in Prostate and Seminal Vesicles, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VW800Z	Revision of Drainage Device in Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VW803Z	Revision of Infusion Device in Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VW807Z	Revision of Autologous Tissue Substitute in Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VW80JZ	Revision of Synthetic Substitute in Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VW80KZ	Revision of Nonautologous Tissue Substitute in Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VW80YZ	Revision of Other Device in Scrotum and Tunica Vaginalis, Open Approach	PX	ICD-10-PCS
0VW840Z	Revision of Drainage Device in Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VW843Z	Revision of Infusion Device in Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VW847Z	Revision of Autologous Tissue Substitute in Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VW84JZ	Revision of Synthetic Substitute in Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VW84KZ	Revision of Nonautologous Tissue Substitute in Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VW84YZ	Revision of Other Device in Scrotum and Tunica Vaginalis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWD00Z	Revision of Drainage Device in Testis, Open Approach	PX	ICD-10-PCS
0VWD03Z	Revision of Infusion Device in Testis, Open Approach	PX	ICD-10-PCS
0VWD07Z	Revision of Autologous Tissue Substitute in Testis, Open Approach	PX	ICD-10-PCS
0VWD0JZ	Revision of Synthetic Substitute in Testis, Open Approach	PX	ICD-10-PCS
0VWD0KZ	Revision of Nonautologous Tissue Substitute in Testis, Open Approach	PX	ICD-10-PCS
0VWD0YZ	Revision of Other Device in Testis, Open Approach	PX	ICD-10-PCS
0VWD30Z	Revision of Drainage Device in Testis, Percutaneous Approach	PX	ICD-10-PCS
0VWD33Z	Revision of Infusion Device in Testis, Percutaneous Approach	PX	ICD-10-PCS
0VWD37Z	Revision of Autologous Tissue Substitute in Testis, Percutaneous Approach	PX	ICD-10-PCS
0VWD3JZ	Revision of Synthetic Substitute in Testis, Percutaneous Approach	PX	ICD-10-PCS
0VWD3KZ	Revision of Nonautologous Tissue Substitute in Testis, Percutaneous Approach	PX	ICD-10-PCS
0VWD40Z	Revision of Drainage Device in Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWD43Z	Revision of Infusion Device in Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWD47Z	Revision of Autologous Tissue Substitute in Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWD4JZ	Revision of Synthetic Substitute in Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWD4KZ	Revision of Nonautologous Tissue Substitute in Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWD4YZ	Revision of Other Device in Testis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWD70Z	Revision of Drainage Device in Testis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWD73Z	Revision of Infusion Device in Testis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWD77Z	Revision of Autologous Tissue Substitute in Testis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWD7JZ	Revision of Synthetic Substitute in Testis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWD7KZ	Revision of Nonautologous Tissue Substitute in Testis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWD80Z	Revision of Drainage Device in Testis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWD83Z	Revision of Infusion Device in Testis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWD87Z	Revision of Autologous Tissue Substitute in Testis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWD8JZ	Revision of Synthetic Substitute in Testis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWD8KZ	Revision of Nonautologous Tissue Substitute in Testis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWM00Z	Revision of Drainage Device in Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VWM03Z	Revision of Infusion Device in Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VWM07Z	Revision of Autologous Tissue Substitute in Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VWM0CZ	Revision of Extraluminal Device in Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VWM0JZ	Revision of Synthetic Substitute in Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VWM0KZ	Revision of Nonautologous Tissue Substitute in Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VWM0YZ	Revision of Other Device in Epididymis and Spermatic Cord, Open Approach	PX	ICD-10-PCS
0VWM30Z	Revision of Drainage Device in Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VWM33Z	Revision of Infusion Device in Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VWM37Z	Revision of Autologous Tissue Substitute in Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VWM3CZ	Revision of Extraluminal Device in Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VWM3JZ	Revision of Synthetic Substitute in Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VWM3KZ	Revision of Nonautologous Tissue Substitute in Epididymis and Spermatic Cord, Percutaneous Approach	PX	ICD-10-PCS
0VWM40Z	Revision of Drainage Device in Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWM43Z	Revision of Infusion Device in Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWM47Z	Revision of Autologous Tissue Substitute in Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWM4CZ	Revision of Extraluminal Device in Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWM4JZ	Revision of Synthetic Substitute in Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWM4KZ	Revision of Nonautologous Tissue Substitute in Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWM4YZ	Revision of Other Device in Epididymis and Spermatic Cord, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWM70Z	Revision of Drainage Device in Epididymis and Spermatic Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWM73Z	Revision of Infusion Device in Epididymis and Spermatic Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWM77Z	Revision of Autologous Tissue Substitute in Epididymis and Spermatic Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWM7CZ	Revision of Extraluminal Device in Epididymis and Spermatic Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWM7JZ	Revision of Synthetic Substitute in Epididymis and Spermatic Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWM7KZ	Revision of Nonautologous Tissue Substitute in Epididymis and Spermatic Cord, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWM80Z	Revision of Drainage Device in Epididymis and Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VWM83Z	Revision of Infusion Device in Epididymis and Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWM87Z	Revision of Autologous Tissue Substitute in Epididymis and Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWM8CZ	Revision of Extraluminal Device in Epididymis and Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWM8JZ	Revision of Synthetic Substitute in Epididymis and Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWM8KZ	Revision of Nonautologous Tissue Substitute in Epididymis and Spermatic Cord, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWR00Z	Revision of Drainage Device in Vas Deferens, Open Approach	PX	ICD-10-PCS
0VWR03Z	Revision of Infusion Device in Vas Deferens, Open Approach	PX	ICD-10-PCS
0VWR07Z	Revision of Autologous Tissue Substitute in Vas Deferens, Open Approach	PX	ICD-10-PCS
0VWR0CZ	Revision of Extraluminal Device in Vas Deferens, Open Approach	PX	ICD-10-PCS
0VWR0DZ	Revision of Intraluminal Device in Vas Deferens, Open Approach	PX	ICD-10-PCS
0VWR0JZ	Revision of Synthetic Substitute in Vas Deferens, Open Approach	PX	ICD-10-PCS
0VWR0KZ	Revision of Nonautologous Tissue Substitute in Vas Deferens, Open Approach	PX	ICD-10-PCS
0VWR0YZ	Revision of Other Device in Vas Deferens, Open Approach	PX	ICD-10-PCS
0VWR40Z	Revision of Drainage Device in Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWR43Z	Revision of Infusion Device in Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWR47Z	Revision of Autologous Tissue Substitute in Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWR4CZ	Revision of Extraluminal Device in Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWR4DZ	Revision of Intraluminal Device in Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWR4JZ	Revision of Synthetic Substitute in Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWR4KZ	Revision of Nonautologous Tissue Substitute in Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWR4YZ	Revision of Other Device in Vas Deferens, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWS00Z	Revision of Drainage Device in Penis, Open Approach	PX	ICD-10-PCS
0VWS03Z	Revision of Infusion Device in Penis, Open Approach	PX	ICD-10-PCS
0VWS07Z	Revision of Autologous Tissue Substitute in Penis, Open Approach	PX	ICD-10-PCS
0VWS0JZ	Revision of Synthetic Substitute in Penis, Open Approach	PX	ICD-10-PCS
0VWS0KZ	Revision of Nonautologous Tissue Substitute in Penis, Open Approach	PX	ICD-10-PCS
0VWS0YZ	Revision of Other Device in Penis, Open Approach	PX	ICD-10-PCS
0VWS30Z	Revision of Drainage Device in Penis, Percutaneous Approach	PX	ICD-10-PCS
0VWS33Z	Revision of Infusion Device in Penis, Percutaneous Approach	PX	ICD-10-PCS
0VWS37Z	Revision of Autologous Tissue Substitute in Penis, Percutaneous Approach	PX	ICD-10-PCS
0VWS3JZ	Revision of Synthetic Substitute in Penis, Percutaneous Approach	PX	ICD-10-PCS
0VWS3KZ	Revision of Nonautologous Tissue Substitute in Penis, Percutaneous Approach	PX	ICD-10-PCS
0VWS40Z	Revision of Drainage Device in Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWS43Z	Revision of Infusion Device in Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0VWS47Z	Revision of Autologous Tissue Substitute in Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWS4JZ	Revision of Synthetic Substitute in Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWS4KZ	Revision of Nonautologous Tissue Substitute in Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWS4YZ	Revision of Other Device in Penis, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0VWS70Z	Revision of Drainage Device in Penis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWS73Z	Revision of Infusion Device in Penis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWS77Z	Revision of Autologous Tissue Substitute in Penis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWS7JZ	Revision of Synthetic Substitute in Penis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWS7KZ	Revision of Nonautologous Tissue Substitute in Penis, Via Natural or Artificial Opening	PX	ICD-10-PCS
0VWS80Z	Revision of Drainage Device in Penis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWS83Z	Revision of Infusion Device in Penis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWS87Z	Revision of Autologous Tissue Substitute in Penis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWS8JZ	Revision of Synthetic Substitute in Penis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VWS8KZ	Revision of Nonautologous Tissue Substitute in Penis, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0VXT0ZD	Transfer Prepuce to Urethra, Open Approach	PX	ICD-10-PCS
0VXT0ZS	Transfer Prepuce to Penis, Open Approach	PX	ICD-10-PCS
0VXTXZD	Transfer Prepuce to Urethra, External Approach	PX	ICD-10-PCS
0VXTXZS	Transfer Prepuce to Penis, External Approach	PX	ICD-10-PCS
0VY50Z0	Transplantation of Scrotum, Allogeneic, Open Approach	PX	ICD-10-PCS
0VY50Z1	Transplantation of Scrotum, Syngeneic, Open Approach	PX	ICD-10-PCS
0VY50Z2	Transplantation of Scrotum, Zooplastic, Open Approach	PX	ICD-10-PCS
0VYS0Z0	Transplantation of Penis, Allogeneic, Open Approach	PX	ICD-10-PCS
0VYS0Z1	Transplantation of Penis, Syngeneic, Open Approach	PX	ICD-10-PCS
0VYS0Z2	Transplantation of Penis, Zooplastic, Open Approach	PX	ICD-10-PCS
0W0007Z	Alteration of Head with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W000JZ	Alteration of Head with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W000KZ	Alteration of Head with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W000ZZ	Alteration of Head, Open Approach	PX	ICD-10-PCS
0W0037Z	Alteration of Head with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W003JZ	Alteration of Head with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W003KZ	Alteration of Head with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W003ZZ	Alteration of Head, Percutaneous Approach	PX	ICD-10-PCS
0W0047Z	Alteration of Head with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W004JZ	Alteration of Head with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W004KZ	Alteration of Head with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W004ZZ	Alteration of Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0207Z	Alteration of Face with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W020JZ	Alteration of Face with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W020KZ	Alteration of Face with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W020ZZ	Alteration of Face, Open Approach	PX	ICD-10-PCS
0W0237Z	Alteration of Face with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W023JZ	Alteration of Face with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W023KZ	Alteration of Face with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W023ZZ	Alteration of Face, Percutaneous Approach	PX	ICD-10-PCS
0W0247Z	Alteration of Face with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W024JZ	Alteration of Face with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W024KZ	Alteration of Face with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W024ZZ	Alteration of Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0407Z	Alteration of Upper Jaw with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W040JZ	Alteration of Upper Jaw with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W040KZ	Alteration of Upper Jaw with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W040ZZ	Alteration of Upper Jaw, Open Approach	PX	ICD-10-PCS
0W0437Z	Alteration of Upper Jaw with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W043JZ	Alteration of Upper Jaw with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W043KZ	Alteration of Upper Jaw with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W043ZZ	Alteration of Upper Jaw, Percutaneous Approach	PX	ICD-10-PCS
0W0447Z	Alteration of Upper Jaw with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W044JZ	Alteration of Upper Jaw with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W044KZ	Alteration of Upper Jaw with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W044ZZ	Alteration of Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0507Z	Alteration of Lower Jaw with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W050JZ	Alteration of Lower Jaw with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W050KZ	Alteration of Lower Jaw with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W050ZZ	Alteration of Lower Jaw, Open Approach	PX	ICD-10-PCS
0W0537Z	Alteration of Lower Jaw with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W053JZ	Alteration of Lower Jaw with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W053KZ	Alteration of Lower Jaw with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W053ZZ	Alteration of Lower Jaw, Percutaneous Approach	PX	ICD-10-PCS
0W0547Z	Alteration of Lower Jaw with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W054JZ	Alteration of Lower Jaw with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W054KZ	Alteration of Lower Jaw with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W054ZZ	Alteration of Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0607Z	Alteration of Neck with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W060JZ	Alteration of Neck with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W060KZ	Alteration of Neck with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W060ZZ	Alteration of Neck, Open Approach	PX	ICD-10-PCS
0W0637Z	Alteration of Neck with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W063JZ	Alteration of Neck with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W063KZ	Alteration of Neck with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W063ZZ	Alteration of Neck, Percutaneous Approach	PX	ICD-10-PCS
0W0647Z	Alteration of Neck with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W064JZ	Alteration of Neck with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W064KZ	Alteration of Neck with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W064ZZ	Alteration of Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0807Z	Alteration of Chest Wall with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W080JZ	Alteration of Chest Wall with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W080KZ	Alteration of Chest Wall with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W080ZZ	Alteration of Chest Wall, Open Approach	PX	ICD-10-PCS
0W0837Z	Alteration of Chest Wall with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W083JZ	Alteration of Chest Wall with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W083KZ	Alteration of Chest Wall with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W083ZZ	Alteration of Chest Wall, Percutaneous Approach	PX	ICD-10-PCS
0W0847Z	Alteration of Chest Wall with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W084JZ	Alteration of Chest Wall with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W084KZ	Alteration of Chest Wall with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W084ZZ	Alteration of Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0F07Z	Alteration of Abdominal Wall with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W0F0JZ	Alteration of Abdominal Wall with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W0F0KZ	Alteration of Abdominal Wall with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W0F0ZZ	Alteration of Abdominal Wall, Open Approach	PX	ICD-10-PCS
0W0F37Z	Alteration of Abdominal Wall with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0F3JZ	Alteration of Abdominal Wall with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0F3KZ	Alteration of Abdominal Wall with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0F3ZZ	Alteration of Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0W0F47Z	Alteration of Abdominal Wall with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0F4JZ	Alteration of Abdominal Wall with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0F4KZ	Alteration of Abdominal Wall with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0F4ZZ	Alteration of Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0K07Z	Alteration of Upper Back with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W0K0JZ	Alteration of Upper Back with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W0K0KZ	Alteration of Upper Back with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W0K0ZZ	Alteration of Upper Back, Open Approach	PX	ICD-10-PCS
0W0K37Z	Alteration of Upper Back with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0K3JZ	Alteration of Upper Back with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0K3KZ	Alteration of Upper Back with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0K3ZZ	Alteration of Upper Back, Percutaneous Approach	PX	ICD-10-PCS
0W0K47Z	Alteration of Upper Back with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0K4JZ	Alteration of Upper Back with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0K4KZ	Alteration of Upper Back with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0K4ZZ	Alteration of Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0L07Z	Alteration of Lower Back with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W0L0JZ	Alteration of Lower Back with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W0L0KZ	Alteration of Lower Back with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W0L0ZZ	Alteration of Lower Back, Open Approach	PX	ICD-10-PCS
0W0L37Z	Alteration of Lower Back with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0L3JZ	Alteration of Lower Back with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0L3KZ	Alteration of Lower Back with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0L3ZZ	Alteration of Lower Back, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W0L47Z	Alteration of Lower Back with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0L4JZ	Alteration of Lower Back with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0L4KZ	Alteration of Lower Back with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0L4ZZ	Alteration of Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0M07Z	Alteration of Male Perineum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W0M0JZ	Alteration of Male Perineum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W0M0KZ	Alteration of Male Perineum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W0M0ZZ	Alteration of Male Perineum, Open Approach	PX	ICD-10-PCS
0W0M37Z	Alteration of Male Perineum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0M3JZ	Alteration of Male Perineum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0M3KZ	Alteration of Male Perineum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0M3ZZ	Alteration of Male Perineum, Percutaneous Approach	PX	ICD-10-PCS
0W0M47Z	Alteration of Male Perineum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0M4JZ	Alteration of Male Perineum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0M4KZ	Alteration of Male Perineum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0M4ZZ	Alteration of Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0N07Z	Alteration of Female Perineum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W0N0JZ	Alteration of Female Perineum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W0N0KZ	Alteration of Female Perineum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W0N0ZZ	Alteration of Female Perineum, Open Approach	PX	ICD-10-PCS
0W0N37Z	Alteration of Female Perineum with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0N3JZ	Alteration of Female Perineum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0N3KZ	Alteration of Female Perineum with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W0N3ZZ	Alteration of Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0W0N47Z	Alteration of Female Perineum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0N4JZ	Alteration of Female Perineum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0N4KZ	Alteration of Female Perineum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W0N4ZZ	Alteration of Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W110J9	Bypass Cranial Cavity to Right Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W110JB	Bypass Cranial Cavity to Left Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W110JG	Bypass Cranial Cavity to Peritoneal Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W110JJ	Bypass Cranial Cavity to Pelvic Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W190J4	Bypass Right Pleural Cavity to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W190J9	Bypass Right Pleural Cavity to Right Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W190JB	Bypass Right Pleural Cavity to Left Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W190JG	Bypass Right Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W190JJ	Bypass Right Pleural Cavity to Pelvic Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W190JW	Bypass Right Pleural Cavity to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W190JY	Bypass Right Pleural Cavity to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W193J9	Bypass Right Pleural Cavity to Right Pleural Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W193JB	Bypass Right Pleural Cavity to Left Pleural Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W193JG	Bypass Right Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W193JJ	Bypass Right Pleural Cavity to Pelvic Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W193JW	Bypass Right Pleural Cavity to Upper Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W193JY	Bypass Right Pleural Cavity to Lower Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W194J4	Bypass Right Pleural Cavity to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W194J9	Bypass Right Pleural Cavity to Right Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W194JB	Bypass Right Pleural Cavity to Left Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W194JG	Bypass Right Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W194JJ	Bypass Right Pleural Cavity to Pelvic Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W194JW	Bypass Right Pleural Cavity to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W194JY	Bypass Right Pleural Cavity to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1B0J4	Bypass Left Pleural Cavity to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1B0J9	Bypass Left Pleural Cavity to Right Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1B0JB	Bypass Left Pleural Cavity to Left Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1B0JG	Bypass Left Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1B0JJ	Bypass Left Pleural Cavity to Pelvic Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1B0JW	Bypass Left Pleural Cavity to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1B0JY	Bypass Left Pleural Cavity to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1B3J9	Bypass Left Pleural Cavity to Right Pleural Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1B3JB	Bypass Left Pleural Cavity to Left Pleural Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1B3JG	Bypass Left Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1B3JJ	Bypass Left Pleural Cavity to Pelvic Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1B3JW	Bypass Left Pleural Cavity to Upper Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1B3JY	Bypass Left Pleural Cavity to Lower Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1B4J4	Bypass Left Pleural Cavity to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1B4J9	Bypass Left Pleural Cavity to Right Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1B4JB	Bypass Left Pleural Cavity to Left Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1B4JG	Bypass Left Pleural Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1B4JJ	Bypass Left Pleural Cavity to Pelvic Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1B4JW	Bypass Left Pleural Cavity to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1B4JY	Bypass Left Pleural Cavity to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1G0J4	Bypass Peritoneal Cavity to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1G0J6	Bypass Peritoneal Cavity to Bladder with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W1G0J9	Bypass Peritoneal Cavity to Right Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1G0JB	Bypass Peritoneal Cavity to Left Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1G0JG	Bypass Peritoneal Cavity to Peritoneal Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1G0JJ	Bypass Peritoneal Cavity to Pelvic Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1G0JW	Bypass Peritoneal Cavity to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1G0JY	Bypass Peritoneal Cavity to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1G3J6	Bypass Peritoneal Cavity to Bladder with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1G3J9	Bypass Peritoneal Cavity to Right Pleural Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1G3JB	Bypass Peritoneal Cavity to Left Pleural Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1G3JG	Bypass Peritoneal Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1G3JJ	Bypass Peritoneal Cavity to Pelvic Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1G3JW	Bypass Peritoneal Cavity to Upper Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1G3JY	Bypass Peritoneal Cavity to Lower Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1G4J4	Bypass Peritoneal Cavity to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1G4J6	Bypass Peritoneal Cavity to Bladder with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1G4J9	Bypass Peritoneal Cavity to Right Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1G4JB	Bypass Peritoneal Cavity to Left Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1G4JG	Bypass Peritoneal Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1G4JJ	Bypass Peritoneal Cavity to Pelvic Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1G4JW	Bypass Peritoneal Cavity to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1G4JY	Bypass Peritoneal Cavity to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1J0J4	Bypass Pelvic Cavity to Cutaneous with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1J0J9	Bypass Pelvic Cavity to Right Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W1J0JB	Bypass Pelvic Cavity to Left Pleural Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1J0JG	Bypass Pelvic Cavity to Peritoneal Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1J0JJ	Bypass Pelvic Cavity to Pelvic Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1J0JW	Bypass Pelvic Cavity to Upper Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1J0JY	Bypass Pelvic Cavity to Lower Vein with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W1J3J9	Bypass Pelvic Cavity to Right Pleural Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1J3JB	Bypass Pelvic Cavity to Left Pleural Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1J3JG	Bypass Pelvic Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1J3JJ	Bypass Pelvic Cavity to Pelvic Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1J3JW	Bypass Pelvic Cavity to Upper Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1J3JY	Bypass Pelvic Cavity to Lower Vein with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0W1J4J4	Bypass Pelvic Cavity to Cutaneous with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1J4J9	Bypass Pelvic Cavity to Right Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1J4JB	Bypass Pelvic Cavity to Left Pleural Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1J4JG	Bypass Pelvic Cavity to Peritoneal Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1J4JJ	Bypass Pelvic Cavity to Pelvic Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1J4JW	Bypass Pelvic Cavity to Upper Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W1J4JY	Bypass Pelvic Cavity to Lower Vein with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W300ZZ	Control Bleeding in Head, Open Approach	PX	ICD-10-PCS
0W303ZZ	Control Bleeding in Head, Percutaneous Approach	PX	ICD-10-PCS
0W304ZZ	Control Bleeding in Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W310ZZ	Control Bleeding in Cranial Cavity, Open Approach	PX	ICD-10-PCS
0W313ZZ	Control Bleeding in Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0W314ZZ	Control Bleeding in Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W320ZZ	Control Bleeding in Face, Open Approach	PX	ICD-10-PCS
0W323ZZ	Control Bleeding in Face, Percutaneous Approach	PX	ICD-10-PCS
0W324ZZ	Control Bleeding in Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W330ZZ	Control Bleeding in Oral Cavity and Throat, Open Approach	PX	ICD-10-PCS
0W333ZZ	Control Bleeding in Oral Cavity and Throat, Percutaneous Approach	PX	ICD-10-PCS
0W334ZZ	Control Bleeding in Oral Cavity and Throat, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W337ZZ	Control Bleeding in Oral Cavity and Throat, Via Natural or Artificial Opening	PX	ICD-10-PCS
0W338ZZ	Control Bleeding in Oral Cavity and Throat, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0W33XZZ	Control Bleeding in Oral Cavity and Throat, External Approach	PX	ICD-10-PCS
0W340ZZ	Control Bleeding in Upper Jaw, Open Approach	PX	ICD-10-PCS
0W343ZZ	Control Bleeding in Upper Jaw, Percutaneous Approach	PX	ICD-10-PCS
0W344ZZ	Control Bleeding in Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W350ZZ	Control Bleeding in Lower Jaw, Open Approach	PX	ICD-10-PCS
0W353ZZ	Control Bleeding in Lower Jaw, Percutaneous Approach	PX	ICD-10-PCS
0W354ZZ	Control Bleeding in Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W360ZZ	Control Bleeding in Neck, Open Approach	PX	ICD-10-PCS
0W363ZZ	Control Bleeding in Neck, Percutaneous Approach	PX	ICD-10-PCS
0W364ZZ	Control Bleeding in Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W380ZZ	Control Bleeding in Chest Wall, Open Approach	PX	ICD-10-PCS
0W383ZZ	Control Bleeding in Chest Wall, Percutaneous Approach	PX	ICD-10-PCS
0W384ZZ	Control Bleeding in Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W390ZZ	Control Bleeding in Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0W393ZZ	Control Bleeding in Right Pleural Cavity, Percutaneous Approach	PX	ICD-10-PCS
0W394ZZ	Control Bleeding in Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3B0ZZ	Control Bleeding in Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0W3B3ZZ	Control Bleeding in Left Pleural Cavity, Percutaneous Approach	PX	ICD-10-PCS
0W3B4ZZ	Control Bleeding in Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3C0ZZ	Control Bleeding in Mediastinum, Open Approach	PX	ICD-10-PCS
0W3C3ZZ	Control Bleeding in Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0W3C4ZZ	Control Bleeding in Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3D0ZZ	Control Bleeding in Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0W3D3ZZ	Control Bleeding in Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0W3D4ZZ	Control Bleeding in Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3F0ZZ	Control Bleeding in Abdominal Wall, Open Approach	PX	ICD-10-PCS
0W3F3ZZ	Control Bleeding in Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0W3F4ZZ	Control Bleeding in Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3G0ZZ	Control Bleeding in Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0W3G3ZZ	Control Bleeding in Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0W3G4ZZ	Control Bleeding in Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3H0ZZ	Control Bleeding in Retroperitoneum, Open Approach	PX	ICD-10-PCS
0W3H3ZZ	Control Bleeding in Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0W3H4ZZ	Control Bleeding in Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3J0ZZ	Control Bleeding in Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0W3J3ZZ	Control Bleeding in Pelvic Cavity, Percutaneous Approach	PX	ICD-10-PCS
0W3J4ZZ	Control Bleeding in Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3K0ZZ	Control Bleeding in Upper Back, Open Approach	PX	ICD-10-PCS
0W3K3ZZ	Control Bleeding in Upper Back, Percutaneous Approach	PX	ICD-10-PCS
0W3K4ZZ	Control Bleeding in Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3L0ZZ	Control Bleeding in Lower Back, Open Approach	PX	ICD-10-PCS
0W3L3ZZ	Control Bleeding in Lower Back, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W3L4ZZ	Control Bleeding in Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3M0ZZ	Control Bleeding in Male Perineum, Open Approach	PX	ICD-10-PCS
0W3M3ZZ	Control Bleeding in Male Perineum, Percutaneous Approach	PX	ICD-10-PCS
0W3M4ZZ	Control Bleeding in Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3N0ZZ	Control Bleeding in Female Perineum, Open Approach	PX	ICD-10-PCS
0W3N3ZZ	Control Bleeding in Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0W3N4ZZ	Control Bleeding in Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3P0ZZ	Control Bleeding in Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0W3P3ZZ	Control Bleeding in Gastrointestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0W3P4ZZ	Control Bleeding in Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3P7ZZ	Control Bleeding in Gastrointestinal Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0W3Q0ZZ	Control Bleeding in Respiratory Tract, Open Approach	PX	ICD-10-PCS
0W3Q3ZZ	Control Bleeding in Respiratory Tract, Percutaneous Approach	PX	ICD-10-PCS
0W3Q4ZZ	Control Bleeding in Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3Q7ZZ	Control Bleeding in Respiratory Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0W3Q8ZZ	Control Bleeding in Respiratory Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0W3R0ZZ	Control Bleeding in Genitourinary Tract, Open Approach	PX	ICD-10-PCS
0W3R3ZZ	Control Bleeding in Genitourinary Tract, Percutaneous Approach	PX	ICD-10-PCS
0W3R4ZZ	Control Bleeding in Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W3R7ZZ	Control Bleeding in Genitourinary Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0W3R8ZZ	Control Bleeding in Genitourinary Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0W4M070	Creation of Vagina in Male Perineum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W4M0J0	Creation of Vagina in Male Perineum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W4M0K0	Creation of Vagina in Male Perineum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W4M0Z0	Creation of Vagina in Male Perineum, Open Approach	PX	ICD-10-PCS
0W4N071	Creation of Penis in Female Perineum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W4N0J1	Creation of Penis in Female Perineum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0W4N0K1	Creation of Penis in Female Perineum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0W4N0Z1	Creation of Penis in Female Perineum, Open Approach	PX	ICD-10-PCS
0W9040Z	Drainage of Head with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W904ZZ	Drainage of Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9100Z	Drainage of Cranial Cavity with Drainage Device, Open Approach	PX	ICD-10-PCS
0W910ZZ	Drainage of Cranial Cavity, Open Approach	PX	ICD-10-PCS
0W9140Z	Drainage of Cranial Cavity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W914ZZ	Drainage of Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9200Z	Drainage of Face with Drainage Device, Open Approach	PX	ICD-10-PCS
0W920ZZ	Drainage of Face, Open Approach	PX	ICD-10-PCS
0W9240Z	Drainage of Face with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W924ZZ	Drainage of Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9300Z	Drainage of Oral Cavity and Throat with Drainage Device, Open Approach	PX	ICD-10-PCS
0W930ZZ	Drainage of Oral Cavity and Throat, Open Approach	PX	ICD-10-PCS
0W9340Z	Drainage of Oral Cavity and Throat with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W934ZZ	Drainage of Oral Cavity and Throat, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9400Z	Drainage of Upper Jaw with Drainage Device, Open Approach	PX	ICD-10-PCS
0W940ZZ	Drainage of Upper Jaw, Open Approach	PX	ICD-10-PCS
0W9440Z	Drainage of Upper Jaw with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W944ZZ	Drainage of Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9500Z	Drainage of Lower Jaw with Drainage Device, Open Approach	PX	ICD-10-PCS
0W950ZZ	Drainage of Lower Jaw, Open Approach	PX	ICD-10-PCS
0W9540Z	Drainage of Lower Jaw with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W954ZZ	Drainage of Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9600Z	Drainage of Neck with Drainage Device, Open Approach	PX	ICD-10-PCS
0W960ZZ	Drainage of Neck, Open Approach	PX	ICD-10-PCS
0W9640Z	Drainage of Neck with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W964ZZ	Drainage of Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9840Z	Drainage of Chest Wall with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W984ZZ	Drainage of Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9940Z	Drainage of Right Pleural Cavity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W994ZZ	Drainage of Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9B40Z	Drainage of Left Pleural Cavity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9B4ZZ	Drainage of Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9C00Z	Drainage of Mediastinum with Drainage Device, Open Approach	PX	ICD-10-PCS
0W9C0ZZ	Drainage of Mediastinum, Open Approach	PX	ICD-10-PCS
0W9C40Z	Drainage of Mediastinum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9C4ZZ	Drainage of Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9D00Z	Drainage of Pericardial Cavity with Drainage Device, Open Approach	PX	ICD-10-PCS
0W9D0ZZ	Drainage of Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0W9D40Z	Drainage of Pericardial Cavity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9D4ZZ	Drainage of Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9F00Z	Drainage of Abdominal Wall with Drainage Device, Open Approach	PX	ICD-10-PCS
0W9F0ZZ	Drainage of Abdominal Wall, Open Approach	PX	ICD-10-PCS
0W9F40Z	Drainage of Abdominal Wall with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9F4ZZ	Drainage of Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9G00Z	Drainage of Peritoneal Cavity with Drainage Device, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0W9G0ZZ	Drainage of Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0W9G40Z	Drainage of Peritoneal Cavity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9G4ZZ	Drainage of Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9H00Z	Drainage of Retroperitoneum with Drainage Device, Open Approach	PX	ICD-10-PCS
0W9H0ZZ	Drainage of Retroperitoneum, Open Approach	PX	ICD-10-PCS
0W9H40Z	Drainage of Retroperitoneum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9H4ZZ	Drainage of Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9J00Z	Drainage of Pelvic Cavity with Drainage Device, Open Approach	PX	ICD-10-PCS
0W9J0ZZ	Drainage of Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0W9J40Z	Drainage of Pelvic Cavity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9J4ZZ	Drainage of Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9K40Z	Drainage of Upper Back with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9K4ZZ	Drainage of Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9L40Z	Drainage of Lower Back with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9L4ZZ	Drainage of Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9M40Z	Drainage of Male Perineum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9M4ZZ	Drainage of Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9N00Z	Drainage of Female Perineum with Drainage Device, Open Approach	PX	ICD-10-PCS
0W9N0ZZ	Drainage of Female Perineum, Open Approach	PX	ICD-10-PCS
0W9N40Z	Drainage of Female Perineum with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0W9N4ZZ	Drainage of Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WB00ZZ	Excision of Head, Open Approach	PX	ICD-10-PCS
0WB03ZZ	Excision of Head, Percutaneous Approach	PX	ICD-10-PCS
0WB04ZZ	Excision of Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WB0XZZ	Excision of Head, External Approach	PX	ICD-10-PCS
0WB20ZZ	Excision of Face, Open Approach	PX	ICD-10-PCS
0WB23ZZ	Excision of Face, Percutaneous Approach	PX	ICD-10-PCS
0WB24ZZ	Excision of Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WB2XZZ	Excision of Face, External Approach	PX	ICD-10-PCS
0WB30ZZ	Excision of Oral Cavity and Throat, Open Approach	PX	ICD-10-PCS
0WB33ZZ	Excision of Oral Cavity and Throat, Percutaneous Approach	PX	ICD-10-PCS
0WB34ZZ	Excision of Oral Cavity and Throat, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WB3XZZ	Excision of Oral Cavity and Throat, External Approach	PX	ICD-10-PCS
0WB40ZZ	Excision of Upper Jaw, Open Approach	PX	ICD-10-PCS
0WB43ZZ	Excision of Upper Jaw, Percutaneous Approach	PX	ICD-10-PCS
0WB44ZZ	Excision of Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WB4XZZ	Excision of Upper Jaw, External Approach	PX	ICD-10-PCS
0WB50ZZ	Excision of Lower Jaw, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WB53ZZ	Excision of Lower Jaw, Percutaneous Approach	PX	ICD-10-PCS
0WB54ZZ	Excision of Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WB5XZZ	Excision of Lower Jaw, External Approach	PX	ICD-10-PCS
0WB60ZZ	Excision of Neck, Open Approach	PX	ICD-10-PCS
0WB63ZZ	Excision of Neck, Percutaneous Approach	PX	ICD-10-PCS
0WB64ZZ	Excision of Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WB6XZ2	Excision of Neck, Stoma, External Approach	PX	ICD-10-PCS
0WB6XZZ	Excision of Neck, External Approach	PX	ICD-10-PCS
0WB80ZZ	Excision of Chest Wall, Open Approach	PX	ICD-10-PCS
0WB83ZZ	Excision of Chest Wall, Percutaneous Approach	PX	ICD-10-PCS
0WB84ZZ	Excision of Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WB8XZZ	Excision of Chest Wall, External Approach	PX	ICD-10-PCS
0WBC0ZZ	Excision of Mediastinum, Open Approach	PX	ICD-10-PCS
0WBC3ZZ	Excision of Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WBC4ZZ	Excision of Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WBF0ZZ	Excision of Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WBF3ZZ	Excision of Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WBF4ZZ	Excision of Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WBFXZ2	Excision of Abdominal Wall, Stoma, External Approach	PX	ICD-10-PCS
0WBFXZZ	Excision of Abdominal Wall, External Approach	PX	ICD-10-PCS
0WBH0ZZ	Excision of Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WBH3ZZ	Excision of Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0WBH4ZZ	Excision of Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WBK0ZZ	Excision of Upper Back, Open Approach	PX	ICD-10-PCS
0WBK3ZZ	Excision of Upper Back, Percutaneous Approach	PX	ICD-10-PCS
0WBK4ZZ	Excision of Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WBKXZZ	Excision of Upper Back, External Approach	PX	ICD-10-PCS
0WBL0ZZ	Excision of Lower Back, Open Approach	PX	ICD-10-PCS
0WBL3ZZ	Excision of Lower Back, Percutaneous Approach	PX	ICD-10-PCS
0WBL4ZZ	Excision of Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WBLXZZ	Excision of Lower Back, External Approach	PX	ICD-10-PCS
0WBM0ZZ	Excision of Male Perineum, Open Approach	PX	ICD-10-PCS
0WBM3ZZ	Excision of Male Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WBM4ZZ	Excision of Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WBMXZZ	Excision of Male Perineum, External Approach	PX	ICD-10-PCS
0WBN0ZZ	Excision of Female Perineum, Open Approach	PX	ICD-10-PCS
0WBN3ZZ	Excision of Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WBN4ZZ	Excision of Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WBNXZZ	Excision of Female Perineum, External Approach	PX	ICD-10-PCS
0WC10ZZ	Extirpation of Matter from Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WC13ZZ	Extirpation of Matter from Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WC14ZZ	Extirpation of Matter from Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WC30ZZ	Extirpation of Matter from Oral Cavity and Throat, Open Approach	PX	ICD-10-PCS
0WC33ZZ	Extirpation of Matter from Oral Cavity and Throat, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WC34ZZ	Extirpation of Matter from Oral Cavity and Throat, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WC40ZZ	Extirpation of Matter from Upper Jaw, Open Approach	PX	ICD-10-PCS
0WC44ZZ	Extirpation of Matter from Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WC50ZZ	Extirpation of Matter from Lower Jaw, Open Approach	PX	ICD-10-PCS
0WC54ZZ	Extirpation of Matter from Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WC90ZZ	Extirpation of Matter from Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WC94ZZ	Extirpation of Matter from Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WCB0ZZ	Extirpation of Matter from Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WCB4ZZ	Extirpation of Matter from Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WCC0ZZ	Extirpation of Matter from Mediastinum, Open Approach	PX	ICD-10-PCS
0WCC3ZZ	Extirpation of Matter from Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WCC4ZZ	Extirpation of Matter from Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WCD0ZZ	Extirpation of Matter from Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WCD3ZZ	Extirpation of Matter from Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WCD4ZZ	Extirpation of Matter from Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WCG0ZZ	Extirpation of Matter from Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WCG3ZZ	Extirpation of Matter from Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WCG4ZZ	Extirpation of Matter from Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WCH0ZZ	Extirpation of Matter from Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WCH3ZZ	Extirpation of Matter from Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0WCH4ZZ	Extirpation of Matter from Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WCJ0ZZ	Extirpation of Matter from Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WCJ3ZZ	Extirpation of Matter from Pelvic Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WCJ4ZZ	Extirpation of Matter from Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WCP0ZZ	Extirpation of Matter from Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WCP3ZZ	Extirpation of Matter from Gastrointestinal Tract, Percutaneous Approach	PX	ICD-10-PCS
0WCP4ZZ	Extirpation of Matter from Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WCQ0ZZ	Extirpation of Matter from Respiratory Tract, Open Approach	PX	ICD-10-PCS
0WCQ4ZZ	Extirpation of Matter from Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WCQ7ZZ	Extirpation of Matter from Respiratory Tract, Via Natural or Artificial Opening	PX	ICD-10-PCS
0WCQ8ZZ	Extirpation of Matter from Respiratory Tract, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
0WCR0ZZ	Extirpation of Matter from Genitourinary Tract, Open Approach	PX	ICD-10-PCS
0WCR3ZZ	Extirpation of Matter from Genitourinary Tract, Percutaneous Approach	PX	ICD-10-PCS
0WCR4ZZ	Extirpation of Matter from Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WF10ZZ	Fragmentation in Cranial Cavity, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WF13ZZ	Fragmentation in Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WF14ZZ	Fragmentation in Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WF30ZZ	Fragmentation in Oral Cavity and Throat, Open Approach	PX	ICD-10-PCS
0WF33ZZ	Fragmentation in Oral Cavity and Throat, Percutaneous Approach	PX	ICD-10-PCS
0WF34ZZ	Fragmentation in Oral Cavity and Throat, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WF90ZZ	Fragmentation in Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WF93ZZ	Fragmentation in Right Pleural Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WF94ZZ	Fragmentation in Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WFB0ZZ	Fragmentation in Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WFB3ZZ	Fragmentation in Left Pleural Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WFB4ZZ	Fragmentation in Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WFC0ZZ	Fragmentation in Mediastinum, Open Approach	PX	ICD-10-PCS
0WFC3ZZ	Fragmentation in Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WFC4ZZ	Fragmentation in Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WFD0ZZ	Fragmentation in Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WFD3ZZ	Fragmentation in Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WFD4ZZ	Fragmentation in Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WFDXZZ	Fragmentation in Pericardial Cavity, External Approach	PX	ICD-10-PCS
0WFG0ZZ	Fragmentation in Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WFG3ZZ	Fragmentation in Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WFG4ZZ	Fragmentation in Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WFJ0ZZ	Fragmentation in Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WFJ4ZZ	Fragmentation in Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WFP0ZZ	Fragmentation in Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WFP4ZZ	Fragmentation in Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WFQ0ZZ	Fragmentation in Respiratory Tract, Open Approach	PX	ICD-10-PCS
0WFQ3ZZ	Fragmentation in Respiratory Tract, Percutaneous Approach	PX	ICD-10-PCS
0WFQ4ZZ	Fragmentation in Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WFR0ZZ	Fragmentation in Genitourinary Tract, Open Approach	PX	ICD-10-PCS
0WFR4ZZ	Fragmentation in Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH001Z	Insertion of Radioactive Element into Head, Open Approach	PX	ICD-10-PCS
0WH003Z	Insertion of Infusion Device into Head, Open Approach	PX	ICD-10-PCS
0WH00YZ	Insertion of Other Device into Head, Open Approach	PX	ICD-10-PCS
0WH041Z	Insertion of Radioactive Element into Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH043Z	Insertion of Infusion Device into Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH04YZ	Insertion of Other Device into Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH101Z	Insertion of Radioactive Element into Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WH103Z	Insertion of Infusion Device into Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WH10YZ	Insertion of Other Device into Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WH13YZ	Insertion of Other Device into Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WH141Z	Insertion of Radioactive Element into Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH143Z	Insertion of Infusion Device into Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WH14YZ	Insertion of Other Device into Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH201Z	Insertion of Radioactive Element into Face, Open Approach	PX	ICD-10-PCS
0WH203Z	Insertion of Infusion Device into Face, Open Approach	PX	ICD-10-PCS
0WH20YZ	Insertion of Other Device into Face, Open Approach	PX	ICD-10-PCS
0WH241Z	Insertion of Radioactive Element into Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH243Z	Insertion of Infusion Device into Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH24YZ	Insertion of Other Device into Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH301Z	Insertion of Radioactive Element into Oral Cavity and Throat, Open Approach	PX	ICD-10-PCS
0WH303Z	Insertion of Infusion Device into Oral Cavity and Throat, Open Approach	PX	ICD-10-PCS
0WH30YZ	Insertion of Other Device into Oral Cavity and Throat, Open Approach	PX	ICD-10-PCS
0WH333Z	Insertion of Infusion Device into Oral Cavity and Throat, Percutaneous Approach	PX	ICD-10-PCS
0WH33YZ	Insertion of Other Device into Oral Cavity and Throat, Percutaneous Approach	PX	ICD-10-PCS
0WH341Z	Insertion of Radioactive Element into Oral Cavity and Throat, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH343Z	Insertion of Infusion Device into Oral Cavity and Throat, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH34YZ	Insertion of Other Device into Oral Cavity and Throat, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH401Z	Insertion of Radioactive Element into Upper Jaw, Open Approach	PX	ICD-10-PCS
0WH403Z	Insertion of Infusion Device into Upper Jaw, Open Approach	PX	ICD-10-PCS
0WH40YZ	Insertion of Other Device into Upper Jaw, Open Approach	PX	ICD-10-PCS
0WH441Z	Insertion of Radioactive Element into Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH443Z	Insertion of Infusion Device into Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH44YZ	Insertion of Other Device into Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH501Z	Insertion of Radioactive Element into Lower Jaw, Open Approach	PX	ICD-10-PCS
0WH503Z	Insertion of Infusion Device into Lower Jaw, Open Approach	PX	ICD-10-PCS
0WH50YZ	Insertion of Other Device into Lower Jaw, Open Approach	PX	ICD-10-PCS
0WH541Z	Insertion of Radioactive Element into Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH543Z	Insertion of Infusion Device into Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH54YZ	Insertion of Other Device into Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH601Z	Insertion of Radioactive Element into Neck, Open Approach	PX	ICD-10-PCS
0WH603Z	Insertion of Infusion Device into Neck, Open Approach	PX	ICD-10-PCS
0WH60YZ	Insertion of Other Device into Neck, Open Approach	PX	ICD-10-PCS
0WH641Z	Insertion of Radioactive Element into Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH643Z	Insertion of Infusion Device into Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH64YZ	Insertion of Other Device into Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH801Z	Insertion of Radioactive Element into Chest Wall, Open Approach	PX	ICD-10-PCS
0WH803Z	Insertion of Infusion Device into Chest Wall, Open Approach	PX	ICD-10-PCS
0WH80YZ	Insertion of Other Device into Chest Wall, Open Approach	PX	ICD-10-PCS
0WH841Z	Insertion of Radioactive Element into Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WH843Z	Insertion of Infusion Device into Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH84YZ	Insertion of Other Device into Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH901Z	Insertion of Radioactive Element into Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WH903Z	Insertion of Infusion Device into Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WH90YZ	Insertion of Other Device into Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WH941Z	Insertion of Radioactive Element into Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH943Z	Insertion of Infusion Device into Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WH94YZ	Insertion of Other Device into Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHB01Z	Insertion of Radioactive Element into Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WHB03Z	Insertion of Infusion Device into Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WHB0YZ	Insertion of Other Device into Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WHB41Z	Insertion of Radioactive Element into Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHB43Z	Insertion of Infusion Device into Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHB4YZ	Insertion of Other Device into Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHC01Z	Insertion of Radioactive Element into Mediastinum, Open Approach	PX	ICD-10-PCS
0WHC03Z	Insertion of Infusion Device into Mediastinum, Open Approach	PX	ICD-10-PCS
0WHC0GZ	Insertion of Defibrillator Lead into Mediastinum, Open Approach	PX	ICD-10-PCS
0WHC0YZ	Insertion of Other Device into Mediastinum, Open Approach	PX	ICD-10-PCS
0WHC33Z	Insertion of Infusion Device into Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WHC3GZ	Insertion of Defibrillator Lead into Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WHC3YZ	Insertion of Other Device into Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WHC41Z	Insertion of Radioactive Element into Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHC43Z	Insertion of Infusion Device into Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHC4GZ	Insertion of Defibrillator Lead into Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHC4YZ	Insertion of Other Device into Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHD01Z	Insertion of Radioactive Element into Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WHD03Z	Insertion of Infusion Device into Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WHD0YZ	Insertion of Other Device into Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WHD33Z	Insertion of Infusion Device into Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WHD3YZ	Insertion of Other Device into Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WHD41Z	Insertion of Radioactive Element into Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHD43Z	Insertion of Infusion Device into Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WHD4YZ	Insertion of Other Device into Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHF01Z	Insertion of Radioactive Element into Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WHF03Z	Insertion of Infusion Device into Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WHF0YZ	Insertion of Other Device into Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WHF33Z	Insertion of Infusion Device into Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WHF3YZ	Insertion of Other Device into Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WHF41Z	Insertion of Radioactive Element into Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHF43Z	Insertion of Infusion Device into Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHF4YZ	Insertion of Other Device into Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHG01Z	Insertion of Radioactive Element into Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WHG03Z	Insertion of Infusion Device into Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WHG0YZ	Insertion of Other Device into Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WHG3YZ	Insertion of Other Device into Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WHG41Z	Insertion of Radioactive Element into Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHG43Z	Insertion of Infusion Device into Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHG4YZ	Insertion of Other Device into Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHH01Z	Insertion of Radioactive Element into Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WHH03Z	Insertion of Infusion Device into Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WHH0YZ	Insertion of Other Device into Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WHH33Z	Insertion of Infusion Device into Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0WHH3YZ	Insertion of Other Device into Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0WHH41Z	Insertion of Radioactive Element into Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHH43Z	Insertion of Infusion Device into Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHH4YZ	Insertion of Other Device into Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHJ01Z	Insertion of Radioactive Element into Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WHJ03Z	Insertion of Infusion Device into Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WHJ0YZ	Insertion of Other Device into Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WHJ33Z	Insertion of Infusion Device into Pelvic Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WHJ3YZ	Insertion of Other Device into Pelvic Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WHJ41Z	Insertion of Radioactive Element into Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHJ43Z	Insertion of Infusion Device into Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHJ4YZ	Insertion of Other Device into Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHK01Z	Insertion of Radioactive Element into Upper Back, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WHK03Z	Insertion of Infusion Device into Upper Back, Open Approach	PX	ICD-10-PCS
0WHK0YZ	Insertion of Other Device into Upper Back, Open Approach	PX	ICD-10-PCS
0WHK41Z	Insertion of Radioactive Element into Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHK43Z	Insertion of Infusion Device into Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHK4YZ	Insertion of Other Device into Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHL01Z	Insertion of Radioactive Element into Lower Back, Open Approach	PX	ICD-10-PCS
0WHL03Z	Insertion of Infusion Device into Lower Back, Open Approach	PX	ICD-10-PCS
0WHL0YZ	Insertion of Other Device into Lower Back, Open Approach	PX	ICD-10-PCS
0WHL41Z	Insertion of Radioactive Element into Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHL43Z	Insertion of Infusion Device into Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHL4YZ	Insertion of Other Device into Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHM01Z	Insertion of Radioactive Element into Male Perineum, Open Approach	PX	ICD-10-PCS
0WHM03Z	Insertion of Infusion Device into Male Perineum, Open Approach	PX	ICD-10-PCS
0WHM0YZ	Insertion of Other Device into Male Perineum, Open Approach	PX	ICD-10-PCS
0WHM41Z	Insertion of Radioactive Element into Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHM43Z	Insertion of Infusion Device into Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHM4YZ	Insertion of Other Device into Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHN01Z	Insertion of Radioactive Element into Female Perineum, Open Approach	PX	ICD-10-PCS
0WHN03Z	Insertion of Infusion Device into Female Perineum, Open Approach	PX	ICD-10-PCS
0WHN0YZ	Insertion of Other Device into Female Perineum, Open Approach	PX	ICD-10-PCS
0WHN33Z	Insertion of Infusion Device into Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WHN3YZ	Insertion of Other Device into Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WHN41Z	Insertion of Radioactive Element into Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHN43Z	Insertion of Infusion Device into Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHN4YZ	Insertion of Other Device into Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHP01Z	Insertion of Radioactive Element into Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WHP03Z	Insertion of Infusion Device into Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WHP0YZ	Insertion of Other Device into Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WHP41Z	Insertion of Radioactive Element into Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHP43Z	Insertion of Infusion Device into Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHP4YZ	Insertion of Other Device into Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHQ01Z	Insertion of Radioactive Element into Respiratory Tract, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WHQ03Z	Insertion of Infusion Device into Respiratory Tract, Open Approach	PX	ICD-10-PCS
0WHQ0YZ	Insertion of Other Device into Respiratory Tract, Open Approach	PX	ICD-10-PCS
0WHQ33Z	Insertion of Infusion Device into Respiratory Tract, Percutaneous Approach	PX	ICD-10-PCS
0WHQ3YZ	Insertion of Other Device into Respiratory Tract, Percutaneous Approach	PX	ICD-10-PCS
0WHQ41Z	Insertion of Radioactive Element into Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHQ43Z	Insertion of Infusion Device into Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHQ4YZ	Insertion of Other Device into Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHR01Z	Insertion of Radioactive Element into Genitourinary Tract, Open Approach	PX	ICD-10-PCS
0WHR03Z	Insertion of Infusion Device into Genitourinary Tract, Open Approach	PX	ICD-10-PCS
0WHR0YZ	Insertion of Other Device into Genitourinary Tract, Open Approach	PX	ICD-10-PCS
0WHR41Z	Insertion of Radioactive Element into Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHR43Z	Insertion of Infusion Device into Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WHR4YZ	Insertion of Other Device into Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WM20ZZ	Reattachment of Face, Open Approach	PX	ICD-10-PCS
0WM40ZZ	Reattachment of Upper Jaw, Open Approach	PX	ICD-10-PCS
0WM50ZZ	Reattachment of Lower Jaw, Open Approach	PX	ICD-10-PCS
0WM60ZZ	Reattachment of Neck, Open Approach	PX	ICD-10-PCS
0WM80ZZ	Reattachment of Chest Wall, Open Approach	PX	ICD-10-PCS
0WMF0ZZ	Reattachment of Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WMK0ZZ	Reattachment of Upper Back, Open Approach	PX	ICD-10-PCS
0WML0ZZ	Reattachment of Lower Back, Open Approach	PX	ICD-10-PCS
0WMM0ZZ	Reattachment of Male Perineum, Open Approach	PX	ICD-10-PCS
0WMN0ZZ	Reattachment of Female Perineum, Open Approach	PX	ICD-10-PCS
0WP001Z	Removal of Radioactive Element from Head, Open Approach	PX	ICD-10-PCS
0WP007Z	Removal of Autologous Tissue Substitute from Head, Open Approach	PX	ICD-10-PCS
0WP00JZ	Removal of Synthetic Substitute from Head, Open Approach	PX	ICD-10-PCS
0WP00KZ	Removal of Nonautologous Tissue Substitute from Head, Open Approach	PX	ICD-10-PCS
0WP040Z	Removal of Drainage Device from Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP041Z	Removal of Radioactive Element from Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP043Z	Removal of Infusion Device from Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP047Z	Removal of Autologous Tissue Substitute from Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP04JZ	Removal of Synthetic Substitute from Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP04KZ	Removal of Nonautologous Tissue Substitute from Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP04YZ	Removal of Other Device from Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP100Z	Removal of Drainage Device from Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WP101Z	Removal of Radioactive Element from Cranial Cavity, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WP10JZ	Removal of Synthetic Substitute from Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WP10YZ	Removal of Other Device from Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WP130Z	Removal of Drainage Device from Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WP13JZ	Removal of Synthetic Substitute from Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WP13YZ	Removal of Other Device from Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WP140Z	Removal of Drainage Device from Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP141Z	Removal of Radioactive Element from Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP143Z	Removal of Infusion Device from Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP14JZ	Removal of Synthetic Substitute from Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP14YZ	Removal of Other Device from Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP201Z	Removal of Radioactive Element from Face, Open Approach	PX	ICD-10-PCS
0WP207Z	Removal of Autologous Tissue Substitute from Face, Open Approach	PX	ICD-10-PCS
0WP20JZ	Removal of Synthetic Substitute from Face, Open Approach	PX	ICD-10-PCS
0WP20KZ	Removal of Nonautologous Tissue Substitute from Face, Open Approach	PX	ICD-10-PCS
0WP240Z	Removal of Drainage Device from Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP241Z	Removal of Radioactive Element from Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP243Z	Removal of Infusion Device from Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP247Z	Removal of Autologous Tissue Substitute from Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP24JZ	Removal of Synthetic Substitute from Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP24KZ	Removal of Nonautologous Tissue Substitute from Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP24YZ	Removal of Other Device from Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP401Z	Removal of Radioactive Element from Upper Jaw, Open Approach	PX	ICD-10-PCS
0WP407Z	Removal of Autologous Tissue Substitute from Upper Jaw, Open Approach	PX	ICD-10-PCS
0WP40JZ	Removal of Synthetic Substitute from Upper Jaw, Open Approach	PX	ICD-10-PCS
0WP40KZ	Removal of Nonautologous Tissue Substitute from Upper Jaw, Open Approach	PX	ICD-10-PCS
0WP440Z	Removal of Drainage Device from Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP441Z	Removal of Radioactive Element from Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP443Z	Removal of Infusion Device from Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP447Z	Removal of Autologous Tissue Substitute from Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP44JZ	Removal of Synthetic Substitute from Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP44KZ	Removal of Nonautologous Tissue Substitute from Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP44YZ	Removal of Other Device from Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WP501Z	Removal of Radioactive Element from Lower Jaw, Open Approach	PX	ICD-10-PCS
0WP507Z	Removal of Autologous Tissue Substitute from Lower Jaw, Open Approach	PX	ICD-10-PCS
0WP50JZ	Removal of Synthetic Substitute from Lower Jaw, Open Approach	PX	ICD-10-PCS
0WP50KZ	Removal of Nonautologous Tissue Substitute from Lower Jaw, Open Approach	PX	ICD-10-PCS
0WP540Z	Removal of Drainage Device from Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP541Z	Removal of Radioactive Element from Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP543Z	Removal of Infusion Device from Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP547Z	Removal of Autologous Tissue Substitute from Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP54JZ	Removal of Synthetic Substitute from Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP54KZ	Removal of Nonautologous Tissue Substitute from Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP54YZ	Removal of Other Device from Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP601Z	Removal of Radioactive Element from Neck, Open Approach	PX	ICD-10-PCS
0WP607Z	Removal of Autologous Tissue Substitute from Neck, Open Approach	PX	ICD-10-PCS
0WP60JZ	Removal of Synthetic Substitute from Neck, Open Approach	PX	ICD-10-PCS
0WP60KZ	Removal of Nonautologous Tissue Substitute from Neck, Open Approach	PX	ICD-10-PCS
0WP640Z	Removal of Drainage Device from Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP641Z	Removal of Radioactive Element from Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP643Z	Removal of Infusion Device from Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP647Z	Removal of Autologous Tissue Substitute from Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP64JZ	Removal of Synthetic Substitute from Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP64KZ	Removal of Nonautologous Tissue Substitute from Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP64YZ	Removal of Other Device from Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP801Z	Removal of Radioactive Element from Chest Wall, Open Approach	PX	ICD-10-PCS
0WP807Z	Removal of Autologous Tissue Substitute from Chest Wall, Open Approach	PX	ICD-10-PCS
0WP80JZ	Removal of Synthetic Substitute from Chest Wall, Open Approach	PX	ICD-10-PCS
0WP80KZ	Removal of Nonautologous Tissue Substitute from Chest Wall, Open Approach	PX	ICD-10-PCS
0WP840Z	Removal of Drainage Device from Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP841Z	Removal of Radioactive Element from Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP843Z	Removal of Infusion Device from Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP847Z	Removal of Autologous Tissue Substitute from Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP84JZ	Removal of Synthetic Substitute from Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP84KZ	Removal of Nonautologous Tissue Substitute from Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WP84YZ	Removal of Other Device from Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP901Z	Removal of Radioactive Element from Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WP90JZ	Removal of Synthetic Substitute from Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WP940Z	Removal of Drainage Device from Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP941Z	Removal of Radioactive Element from Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP943Z	Removal of Infusion Device from Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP94JZ	Removal of Synthetic Substitute from Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WP94YZ	Removal of Other Device from Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPB01Z	Removal of Radioactive Element from Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WPB0JZ	Removal of Synthetic Substitute from Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WPB40Z	Removal of Drainage Device from Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPB41Z	Removal of Radioactive Element from Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPB43Z	Removal of Infusion Device from Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPB4JZ	Removal of Synthetic Substitute from Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPB4YZ	Removal of Other Device from Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPC00Z	Removal of Drainage Device from Mediastinum, Open Approach	PX	ICD-10-PCS
0WPC01Z	Removal of Radioactive Element from Mediastinum, Open Approach	PX	ICD-10-PCS
0WPC03Z	Removal of Infusion Device from Mediastinum, Open Approach	PX	ICD-10-PCS
0WPC07Z	Removal of Autologous Tissue Substitute from Mediastinum, Open Approach	PX	ICD-10-PCS
0WPC0GZ	Removal of Defibrillator Lead from Mediastinum, Open Approach	PX	ICD-10-PCS
0WPC0JZ	Removal of Synthetic Substitute from Mediastinum, Open Approach	PX	ICD-10-PCS
0WPC0KZ	Removal of Nonautologous Tissue Substitute from Mediastinum, Open Approach	PX	ICD-10-PCS
0WPC0YZ	Removal of Other Device from Mediastinum, Open Approach	PX	ICD-10-PCS
0WPC30Z	Removal of Drainage Device from Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WPC33Z	Removal of Infusion Device from Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WPC37Z	Removal of Autologous Tissue Substitute from Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WPC3GZ	Removal of Defibrillator Lead from Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WPC3JZ	Removal of Synthetic Substitute from Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WPC3KZ	Removal of Nonautologous Tissue Substitute from Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WPC3YZ	Removal of Other Device from Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WPC40Z	Removal of Drainage Device from Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WPC41Z	Removal of Radioactive Element from Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPC43Z	Removal of Infusion Device from Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPC47Z	Removal of Autologous Tissue Substitute from Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPC4GZ	Removal of Defibrillator Lead from Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPC4JZ	Removal of Synthetic Substitute from Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPC4KZ	Removal of Nonautologous Tissue Substitute from Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPC4YZ	Removal of Other Device from Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPD00Z	Removal of Drainage Device from Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WPD01Z	Removal of Radioactive Element from Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WPD03Z	Removal of Infusion Device from Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WPD0YZ	Removal of Other Device from Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WPD30Z	Removal of Drainage Device from Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WPD33Z	Removal of Infusion Device from Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WPD3YZ	Removal of Other Device from Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WPD40Z	Removal of Drainage Device from Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPD41Z	Removal of Radioactive Element from Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPD43Z	Removal of Infusion Device from Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPD4YZ	Removal of Other Device from Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPF00Z	Removal of Drainage Device from Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WPF01Z	Removal of Radioactive Element from Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WPF03Z	Removal of Infusion Device from Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WPF07Z	Removal of Autologous Tissue Substitute from Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WPF0JZ	Removal of Synthetic Substitute from Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WPF0KZ	Removal of Nonautologous Tissue Substitute from Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WPF0YZ	Removal of Other Device from Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WPF30Z	Removal of Drainage Device from Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WPF33Z	Removal of Infusion Device from Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WPF37Z	Removal of Autologous Tissue Substitute from Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WPF3JZ	Removal of Synthetic Substitute from Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WPF3KZ	Removal of Nonautologous Tissue Substitute from Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WPF3YZ	Removal of Other Device from Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WPF40Z	Removal of Drainage Device from Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPF41Z	Removal of Radioactive Element from Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPF43Z	Removal of Infusion Device from Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPF47Z	Removal of Autologous Tissue Substitute from Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPF4JZ	Removal of Synthetic Substitute from Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPF4KZ	Removal of Nonautologous Tissue Substitute from Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPF4YZ	Removal of Other Device from Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPG00Z	Removal of Drainage Device from Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WPG01Z	Removal of Radioactive Element from Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WPG03Z	Removal of Infusion Device from Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WPG0JZ	Removal of Synthetic Substitute from Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WPG0YZ	Removal of Other Device from Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WPG30Z	Removal of Drainage Device from Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WPG33Z	Removal of Infusion Device from Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WPG3JZ	Removal of Synthetic Substitute from Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WPG3YZ	Removal of Other Device from Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WPG40Z	Removal of Drainage Device from Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPG41Z	Removal of Radioactive Element from Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPG43Z	Removal of Infusion Device from Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPG4JZ	Removal of Synthetic Substitute from Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPG4YZ	Removal of Other Device from Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPH00Z	Removal of Drainage Device from Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WPH01Z	Removal of Radioactive Element from Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WPH03Z	Removal of Infusion Device from Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WPH0YZ	Removal of Other Device from Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WPH30Z	Removal of Drainage Device from Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0WPH33Z	Removal of Infusion Device from Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0WPH3YZ	Removal of Other Device from Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0WPH40Z	Removal of Drainage Device from Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPH41Z	Removal of Radioactive Element from Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WPH43Z	Removal of Infusion Device from Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPH4YZ	Removal of Other Device from Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPJ01Z	Removal of Radioactive Element from Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WPJ0JZ	Removal of Synthetic Substitute from Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WPJ40Z	Removal of Drainage Device from Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPJ41Z	Removal of Radioactive Element from Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPJ43Z	Removal of Infusion Device from Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPJ4JZ	Removal of Synthetic Substitute from Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPJ4YZ	Removal of Other Device from Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPK01Z	Removal of Radioactive Element from Upper Back, Open Approach	PX	ICD-10-PCS
0WPK07Z	Removal of Autologous Tissue Substitute from Upper Back, Open Approach	PX	ICD-10-PCS
0WPK0JZ	Removal of Synthetic Substitute from Upper Back, Open Approach	PX	ICD-10-PCS
0WPK0KZ	Removal of Nonautologous Tissue Substitute from Upper Back, Open Approach	PX	ICD-10-PCS
0WPK40Z	Removal of Drainage Device from Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPK41Z	Removal of Radioactive Element from Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPK43Z	Removal of Infusion Device from Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPK47Z	Removal of Autologous Tissue Substitute from Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPK4JZ	Removal of Synthetic Substitute from Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPK4KZ	Removal of Nonautologous Tissue Substitute from Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPK4YZ	Removal of Other Device from Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPL01Z	Removal of Radioactive Element from Lower Back, Open Approach	PX	ICD-10-PCS
0WPL07Z	Removal of Autologous Tissue Substitute from Lower Back, Open Approach	PX	ICD-10-PCS
0WPL0JZ	Removal of Synthetic Substitute from Lower Back, Open Approach	PX	ICD-10-PCS
0WPL0KZ	Removal of Nonautologous Tissue Substitute from Lower Back, Open Approach	PX	ICD-10-PCS
0WPL40Z	Removal of Drainage Device from Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPL41Z	Removal of Radioactive Element from Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPL43Z	Removal of Infusion Device from Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPL47Z	Removal of Autologous Tissue Substitute from Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WPL4JZ	Removal of Synthetic Substitute from Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPL4KZ	Removal of Nonautologous Tissue Substitute from Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPL4YZ	Removal of Other Device from Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPM01Z	Removal of Radioactive Element from Male Perineum, Open Approach	PX	ICD-10-PCS
0WPM07Z	Removal of Autologous Tissue Substitute from Male Perineum, Open Approach	PX	ICD-10-PCS
0WPM0JZ	Removal of Synthetic Substitute from Male Perineum, Open Approach	PX	ICD-10-PCS
0WPM0KZ	Removal of Nonautologous Tissue Substitute from Male Perineum, Open Approach	PX	ICD-10-PCS
0WPM37Z	Removal of Autologous Tissue Substitute from Male Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WPM3KZ	Removal of Nonautologous Tissue Substitute from Male Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WPM40Z	Removal of Drainage Device from Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPM41Z	Removal of Radioactive Element from Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPM43Z	Removal of Infusion Device from Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPM47Z	Removal of Autologous Tissue Substitute from Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPM4JZ	Removal of Synthetic Substitute from Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPM4KZ	Removal of Nonautologous Tissue Substitute from Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPM4YZ	Removal of Other Device from Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPMX7Z	Removal of Autologous Tissue Substitute from Male Perineum, External Approach	PX	ICD-10-PCS
0WPMXJZ	Removal of Synthetic Substitute from Male Perineum, External Approach	PX	ICD-10-PCS
0WPMXKZ	Removal of Nonautologous Tissue Substitute from Male Perineum, External Approach	PX	ICD-10-PCS
0WPN00Z	Removal of Drainage Device from Female Perineum, Open Approach	PX	ICD-10-PCS
0WPN01Z	Removal of Radioactive Element from Female Perineum, Open Approach	PX	ICD-10-PCS
0WPN03Z	Removal of Infusion Device from Female Perineum, Open Approach	PX	ICD-10-PCS
0WPN07Z	Removal of Autologous Tissue Substitute from Female Perineum, Open Approach	PX	ICD-10-PCS
0WPN0JZ	Removal of Synthetic Substitute from Female Perineum, Open Approach	PX	ICD-10-PCS
0WPN0KZ	Removal of Nonautologous Tissue Substitute from Female Perineum, Open Approach	PX	ICD-10-PCS
0WPN0YZ	Removal of Other Device from Female Perineum, Open Approach	PX	ICD-10-PCS
0WPN30Z	Removal of Drainage Device from Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WPN33Z	Removal of Infusion Device from Female Perineum, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WPN37Z	Removal of Autologous Tissue Substitute from Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WPN3JZ	Removal of Synthetic Substitute from Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WPN3KZ	Removal of Nonautologous Tissue Substitute from Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WPN3YZ	Removal of Other Device from Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WPN40Z	Removal of Drainage Device from Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPN41Z	Removal of Radioactive Element from Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPN43Z	Removal of Infusion Device from Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPN47Z	Removal of Autologous Tissue Substitute from Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPN4JZ	Removal of Synthetic Substitute from Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPN4KZ	Removal of Nonautologous Tissue Substitute from Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPN4YZ	Removal of Other Device from Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPP01Z	Removal of Radioactive Element from Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WPP03Z	Removal of Infusion Device from Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WPP0YZ	Removal of Other Device from Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WPP41Z	Removal of Radioactive Element from Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPP43Z	Removal of Infusion Device from Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPP4YZ	Removal of Other Device from Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPQ01Z	Removal of Radioactive Element from Respiratory Tract, Open Approach	PX	ICD-10-PCS
0WPQ33Z	Removal of Infusion Device from Respiratory Tract, Percutaneous Approach	PX	ICD-10-PCS
0WPQ3YZ	Removal of Other Device from Respiratory Tract, Percutaneous Approach	PX	ICD-10-PCS
0WPQ41Z	Removal of Radioactive Element from Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPQ43Z	Removal of Infusion Device from Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPQ4YZ	Removal of Other Device from Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPR01Z	Removal of Radioactive Element from Genitourinary Tract, Open Approach	PX	ICD-10-PCS
0WPR41Z	Removal of Radioactive Element from Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WPR43Z	Removal of Infusion Device from Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WPR4YZ	Removal of Other Device from Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQ00ZZ	Repair Head, Open Approach	PX	ICD-10-PCS
0WQ03ZZ	Repair Head, Percutaneous Approach	PX	ICD-10-PCS
0WQ04ZZ	Repair Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQ0XZZ	Repair Head, External Approach	PX	ICD-10-PCS
0WQ20ZZ	Repair Face, Open Approach	PX	ICD-10-PCS
0WQ23ZZ	Repair Face, Percutaneous Approach	PX	ICD-10-PCS
0WQ24ZZ	Repair Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQ2XZZ	Repair Face, External Approach	PX	ICD-10-PCS
0WQ30ZZ	Repair Oral Cavity and Throat, Open Approach	PX	ICD-10-PCS
0WQ33ZZ	Repair Oral Cavity and Throat, Percutaneous Approach	PX	ICD-10-PCS
0WQ34ZZ	Repair Oral Cavity and Throat, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQ3XZZ	Repair Oral Cavity and Throat, External Approach	PX	ICD-10-PCS
0WQ40ZZ	Repair Upper Jaw, Open Approach	PX	ICD-10-PCS
0WQ43ZZ	Repair Upper Jaw, Percutaneous Approach	PX	ICD-10-PCS
0WQ44ZZ	Repair Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQ4XZZ	Repair Upper Jaw, External Approach	PX	ICD-10-PCS
0WQ50ZZ	Repair Lower Jaw, Open Approach	PX	ICD-10-PCS
0WQ53ZZ	Repair Lower Jaw, Percutaneous Approach	PX	ICD-10-PCS
0WQ54ZZ	Repair Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQ5XZZ	Repair Lower Jaw, External Approach	PX	ICD-10-PCS
0WQ60ZZ	Repair Neck, Open Approach	PX	ICD-10-PCS
0WQ63ZZ	Repair Neck, Percutaneous Approach	PX	ICD-10-PCS
0WQ64ZZ	Repair Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQ6XZ2	Repair Neck, Stoma, External Approach	PX	ICD-10-PCS
0WQ6XZZ	Repair Neck, External Approach	PX	ICD-10-PCS
0WQ80ZZ	Repair Chest Wall, Open Approach	PX	ICD-10-PCS
0WQ83ZZ	Repair Chest Wall, Percutaneous Approach	PX	ICD-10-PCS
0WQ84ZZ	Repair Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQ8XZZ	Repair Chest Wall, External Approach	PX	ICD-10-PCS
0WQC0ZZ	Repair Mediastinum, Open Approach	PX	ICD-10-PCS
0WQC3ZZ	Repair Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WQC4ZZ	Repair Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQF0ZZ	Repair Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WQF3ZZ	Repair Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WQF4ZZ	Repair Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQFXZ2	Repair Abdominal Wall, Stoma, External Approach	PX	ICD-10-PCS
0WQFXZZ	Repair Abdominal Wall, External Approach	PX	ICD-10-PCS
0WQK0ZZ	Repair Upper Back, Open Approach	PX	ICD-10-PCS
0WQK3ZZ	Repair Upper Back, Percutaneous Approach	PX	ICD-10-PCS
0WQK4ZZ	Repair Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQKXZZ	Repair Upper Back, External Approach	PX	ICD-10-PCS
0WQL0ZZ	Repair Lower Back, Open Approach	PX	ICD-10-PCS
0WQL3ZZ	Repair Lower Back, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WQL4ZZ	Repair Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQLXZZ	Repair Lower Back, External Approach	PX	ICD-10-PCS
0WQM0ZZ	Repair Male Perineum, Open Approach	PX	ICD-10-PCS
0WQM3ZZ	Repair Male Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WQM4ZZ	Repair Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WQMXZZ	Repair Male Perineum, External Approach	PX	ICD-10-PCS
0WQN0ZZ	Repair Female Perineum, Open Approach	PX	ICD-10-PCS
0WQN3ZZ	Repair Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WQN4ZZ	Repair Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU007Z	Supplement Head with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU00JZ	Supplement Head with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WU00KZ	Supplement Head with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU047Z	Supplement Head with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU04JZ	Supplement Head with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU04KZ	Supplement Head with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU207Z	Supplement Face with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU20JZ	Supplement Face with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WU20KZ	Supplement Face with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU247Z	Supplement Face with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU24JZ	Supplement Face with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU24KZ	Supplement Face with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU407Z	Supplement Upper Jaw with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU40JZ	Supplement Upper Jaw with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WU40KZ	Supplement Upper Jaw with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU447Z	Supplement Upper Jaw with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU44JZ	Supplement Upper Jaw with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU44KZ	Supplement Upper Jaw with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU507Z	Supplement Lower Jaw with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU50JZ	Supplement Lower Jaw with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WU50KZ	Supplement Lower Jaw with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU547Z	Supplement Lower Jaw with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU54JZ	Supplement Lower Jaw with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU54KZ	Supplement Lower Jaw with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU607Z	Supplement Neck with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WU60JZ	Supplement Neck with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WU60KZ	Supplement Neck with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU647Z	Supplement Neck with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU64JZ	Supplement Neck with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU64KZ	Supplement Neck with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU807Z	Supplement Chest Wall with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU80JZ	Supplement Chest Wall with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WU80KZ	Supplement Chest Wall with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WU847Z	Supplement Chest Wall with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU84JZ	Supplement Chest Wall with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WU84KZ	Supplement Chest Wall with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUC07Z	Supplement Mediastinum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUC0JZ	Supplement Mediastinum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WUC0KZ	Supplement Mediastinum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUC47Z	Supplement Mediastinum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUC4JZ	Supplement Mediastinum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUC4KZ	Supplement Mediastinum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUF07Z	Supplement Abdominal Wall with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUF0JZ	Supplement Abdominal Wall with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WUF0KZ	Supplement Abdominal Wall with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUF47Z	Supplement Abdominal Wall with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUF4JZ	Supplement Abdominal Wall with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUF4KZ	Supplement Abdominal Wall with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUK07Z	Supplement Upper Back with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUK0JZ	Supplement Upper Back with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WUK0KZ	Supplement Upper Back with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUK47Z	Supplement Upper Back with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUK4JZ	Supplement Upper Back with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WUK4KZ	Supplement Upper Back with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUL07Z	Supplement Lower Back with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUL0JZ	Supplement Lower Back with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WUL0KZ	Supplement Lower Back with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUL47Z	Supplement Lower Back with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUL4JZ	Supplement Lower Back with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUL4KZ	Supplement Lower Back with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUM07Z	Supplement Male Perineum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUM0JZ	Supplement Male Perineum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WUM0KZ	Supplement Male Perineum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUM47Z	Supplement Male Perineum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUM4JZ	Supplement Male Perineum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUM4KZ	Supplement Male Perineum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUN07Z	Supplement Female Perineum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUN0JZ	Supplement Female Perineum with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0WUN0KZ	Supplement Female Perineum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0WUN47Z	Supplement Female Perineum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUN4JZ	Supplement Female Perineum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WUN4KZ	Supplement Female Perineum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW000Z	Revision of Drainage Device in Head, Open Approach	PX	ICD-10-PCS
0WW001Z	Revision of Radioactive Element in Head, Open Approach	PX	ICD-10-PCS
0WW003Z	Revision of Infusion Device in Head, Open Approach	PX	ICD-10-PCS
0WW007Z	Revision of Autologous Tissue Substitute in Head, Open Approach	PX	ICD-10-PCS
0WW00JZ	Revision of Synthetic Substitute in Head, Open Approach	PX	ICD-10-PCS
0WW00KZ	Revision of Nonautologous Tissue Substitute in Head, Open Approach	PX	ICD-10-PCS
0WW00YZ	Revision of Other Device in Head, Open Approach	PX	ICD-10-PCS
0WW040Z	Revision of Drainage Device in Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW041Z	Revision of Radioactive Element in Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW043Z	Revision of Infusion Device in Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW047Z	Revision of Autologous Tissue Substitute in Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW04JZ	Revision of Synthetic Substitute in Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WW04KZ	Revision of Nonautologous Tissue Substitute in Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW04YZ	Revision of Other Device in Head, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW100Z	Revision of Drainage Device in Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WW101Z	Revision of Radioactive Element in Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WW103Z	Revision of Infusion Device in Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WW10JZ	Revision of Synthetic Substitute in Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WW10YZ	Revision of Other Device in Cranial Cavity, Open Approach	PX	ICD-10-PCS
0WW130Z	Revision of Drainage Device in Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WW133Z	Revision of Infusion Device in Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WW13JZ	Revision of Synthetic Substitute in Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WW13YZ	Revision of Other Device in Cranial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WW140Z	Revision of Drainage Device in Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW141Z	Revision of Radioactive Element in Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW143Z	Revision of Infusion Device in Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW14JZ	Revision of Synthetic Substitute in Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW14YZ	Revision of Other Device in Cranial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW200Z	Revision of Drainage Device in Face, Open Approach	PX	ICD-10-PCS
0WW201Z	Revision of Radioactive Element in Face, Open Approach	PX	ICD-10-PCS
0WW203Z	Revision of Infusion Device in Face, Open Approach	PX	ICD-10-PCS
0WW207Z	Revision of Autologous Tissue Substitute in Face, Open Approach	PX	ICD-10-PCS
0WW20JZ	Revision of Synthetic Substitute in Face, Open Approach	PX	ICD-10-PCS
0WW20KZ	Revision of Nonautologous Tissue Substitute in Face, Open Approach	PX	ICD-10-PCS
0WW20YZ	Revision of Other Device in Face, Open Approach	PX	ICD-10-PCS
0WW240Z	Revision of Drainage Device in Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW241Z	Revision of Radioactive Element in Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW243Z	Revision of Infusion Device in Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW247Z	Revision of Autologous Tissue Substitute in Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW24JZ	Revision of Synthetic Substitute in Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW24KZ	Revision of Nonautologous Tissue Substitute in Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW24YZ	Revision of Other Device in Face, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW400Z	Revision of Drainage Device in Upper Jaw, Open Approach	PX	ICD-10-PCS
0WW401Z	Revision of Radioactive Element in Upper Jaw, Open Approach	PX	ICD-10-PCS
0WW403Z	Revision of Infusion Device in Upper Jaw, Open Approach	PX	ICD-10-PCS
0WW407Z	Revision of Autologous Tissue Substitute in Upper Jaw, Open Approach	PX	ICD-10-PCS
0WW40JZ	Revision of Synthetic Substitute in Upper Jaw, Open Approach	PX	ICD-10-PCS
0WW40KZ	Revision of Nonautologous Tissue Substitute in Upper Jaw, Open Approach	PX	ICD-10-PCS
0WW40YZ	Revision of Other Device in Upper Jaw, Open Approach	PX	ICD-10-PCS
0WW440Z	Revision of Drainage Device in Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WW441Z	Revision of Radioactive Element in Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW443Z	Revision of Infusion Device in Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW447Z	Revision of Autologous Tissue Substitute in Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW44JZ	Revision of Synthetic Substitute in Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW44KZ	Revision of Nonautologous Tissue Substitute in Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW44YZ	Revision of Other Device in Upper Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW500Z	Revision of Drainage Device in Lower Jaw, Open Approach	PX	ICD-10-PCS
0WW501Z	Revision of Radioactive Element in Lower Jaw, Open Approach	PX	ICD-10-PCS
0WW503Z	Revision of Infusion Device in Lower Jaw, Open Approach	PX	ICD-10-PCS
0WW507Z	Revision of Autologous Tissue Substitute in Lower Jaw, Open Approach	PX	ICD-10-PCS
0WW50JZ	Revision of Synthetic Substitute in Lower Jaw, Open Approach	PX	ICD-10-PCS
0WW50KZ	Revision of Nonautologous Tissue Substitute in Lower Jaw, Open Approach	PX	ICD-10-PCS
0WW50YZ	Revision of Other Device in Lower Jaw, Open Approach	PX	ICD-10-PCS
0WW540Z	Revision of Drainage Device in Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW541Z	Revision of Radioactive Element in Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW543Z	Revision of Infusion Device in Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW547Z	Revision of Autologous Tissue Substitute in Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW54JZ	Revision of Synthetic Substitute in Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW54KZ	Revision of Nonautologous Tissue Substitute in Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW54YZ	Revision of Other Device in Lower Jaw, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW600Z	Revision of Drainage Device in Neck, Open Approach	PX	ICD-10-PCS
0WW601Z	Revision of Radioactive Element in Neck, Open Approach	PX	ICD-10-PCS
0WW603Z	Revision of Infusion Device in Neck, Open Approach	PX	ICD-10-PCS
0WW607Z	Revision of Autologous Tissue Substitute in Neck, Open Approach	PX	ICD-10-PCS
0WW60JZ	Revision of Synthetic Substitute in Neck, Open Approach	PX	ICD-10-PCS
0WW60KZ	Revision of Nonautologous Tissue Substitute in Neck, Open Approach	PX	ICD-10-PCS
0WW60YZ	Revision of Other Device in Neck, Open Approach	PX	ICD-10-PCS
0WW640Z	Revision of Drainage Device in Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW641Z	Revision of Radioactive Element in Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW643Z	Revision of Infusion Device in Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW647Z	Revision of Autologous Tissue Substitute in Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW64JZ	Revision of Synthetic Substitute in Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW64KZ	Revision of Nonautologous Tissue Substitute in Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW64YZ	Revision of Other Device in Neck, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW800Z	Revision of Drainage Device in Chest Wall, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WW801Z	Revision of Radioactive Element in Chest Wall, Open Approach	PX	ICD-10-PCS
0WW803Z	Revision of Infusion Device in Chest Wall, Open Approach	PX	ICD-10-PCS
0WW807Z	Revision of Autologous Tissue Substitute in Chest Wall, Open Approach	PX	ICD-10-PCS
0WW80JZ	Revision of Synthetic Substitute in Chest Wall, Open Approach	PX	ICD-10-PCS
0WW80KZ	Revision of Nonautologous Tissue Substitute in Chest Wall, Open Approach	PX	ICD-10-PCS
0WW80YZ	Revision of Other Device in Chest Wall, Open Approach	PX	ICD-10-PCS
0WW840Z	Revision of Drainage Device in Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW841Z	Revision of Radioactive Element in Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW843Z	Revision of Infusion Device in Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW847Z	Revision of Autologous Tissue Substitute in Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW84JZ	Revision of Synthetic Substitute in Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW84KZ	Revision of Nonautologous Tissue Substitute in Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW84YZ	Revision of Other Device in Chest Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW900Z	Revision of Drainage Device in Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WW901Z	Revision of Radioactive Element in Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WW903Z	Revision of Infusion Device in Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WW90JZ	Revision of Synthetic Substitute in Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WW90YZ	Revision of Other Device in Right Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WW940Z	Revision of Drainage Device in Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW941Z	Revision of Radioactive Element in Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW943Z	Revision of Infusion Device in Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW94JZ	Revision of Synthetic Substitute in Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WW94YZ	Revision of Other Device in Right Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWB00Z	Revision of Drainage Device in Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WWB01Z	Revision of Radioactive Element in Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WWB03Z	Revision of Infusion Device in Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WWB0JZ	Revision of Synthetic Substitute in Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WWB0YZ	Revision of Other Device in Left Pleural Cavity, Open Approach	PX	ICD-10-PCS
0WWB40Z	Revision of Drainage Device in Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWB41Z	Revision of Radioactive Element in Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWB43Z	Revision of Infusion Device in Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWB4JZ	Revision of Synthetic Substitute in Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WWB4YZ	Revision of Other Device in Left Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWC00Z	Revision of Drainage Device in Mediastinum, Open Approach	PX	ICD-10-PCS
0WWC01Z	Revision of Radioactive Element in Mediastinum, Open Approach	PX	ICD-10-PCS
0WWC03Z	Revision of Infusion Device in Mediastinum, Open Approach	PX	ICD-10-PCS
0WWC07Z	Revision of Autologous Tissue Substitute in Mediastinum, Open Approach	PX	ICD-10-PCS
0WWC0GZ	Revision of Defibrillator Lead in Mediastinum, Open Approach	PX	ICD-10-PCS
0WWC0JZ	Revision of Synthetic Substitute in Mediastinum, Open Approach	PX	ICD-10-PCS
0WWC0KZ	Revision of Nonautologous Tissue Substitute in Mediastinum, Open Approach	PX	ICD-10-PCS
0WWC0YZ	Revision of Other Device in Mediastinum, Open Approach	PX	ICD-10-PCS
0WWC30Z	Revision of Drainage Device in Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WWC33Z	Revision of Infusion Device in Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WWC37Z	Revision of Autologous Tissue Substitute in Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WWC3GZ	Revision of Defibrillator Lead in Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WWC3JZ	Revision of Synthetic Substitute in Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WWC3KZ	Revision of Nonautologous Tissue Substitute in Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WWC3YZ	Revision of Other Device in Mediastinum, Percutaneous Approach	PX	ICD-10-PCS
0WWC40Z	Revision of Drainage Device in Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWC41Z	Revision of Radioactive Element in Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWC43Z	Revision of Infusion Device in Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWC47Z	Revision of Autologous Tissue Substitute in Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWC4GZ	Revision of Defibrillator Lead in Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWC4JZ	Revision of Synthetic Substitute in Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWC4KZ	Revision of Nonautologous Tissue Substitute in Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWC4YZ	Revision of Other Device in Mediastinum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWD00Z	Revision of Drainage Device in Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WWD01Z	Revision of Radioactive Element in Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WWD03Z	Revision of Infusion Device in Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WWD0YZ	Revision of Other Device in Pericardial Cavity, Open Approach	PX	ICD-10-PCS
0WWD30Z	Revision of Drainage Device in Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWD33Z	Revision of Infusion Device in Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWD3YZ	Revision of Other Device in Pericardial Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWD40Z	Revision of Drainage Device in Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWD41Z	Revision of Radioactive Element in Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WWD43Z	Revision of Infusion Device in Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWD4YZ	Revision of Other Device in Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWF00Z	Revision of Drainage Device in Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WWF01Z	Revision of Radioactive Element in Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WWF03Z	Revision of Infusion Device in Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WWF07Z	Revision of Autologous Tissue Substitute in Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WWF0JZ	Revision of Synthetic Substitute in Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WWF0KZ	Revision of Nonautologous Tissue Substitute in Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WWF0YZ	Revision of Other Device in Abdominal Wall, Open Approach	PX	ICD-10-PCS
0WWF30Z	Revision of Drainage Device in Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WWF33Z	Revision of Infusion Device in Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WWF37Z	Revision of Autologous Tissue Substitute in Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WWF3JZ	Revision of Synthetic Substitute in Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WWF3KZ	Revision of Nonautologous Tissue Substitute in Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WWF3YZ	Revision of Other Device in Abdominal Wall, Percutaneous Approach	PX	ICD-10-PCS
0WWF40Z	Revision of Drainage Device in Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWF41Z	Revision of Radioactive Element in Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWF43Z	Revision of Infusion Device in Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWF47Z	Revision of Autologous Tissue Substitute in Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWF4JZ	Revision of Synthetic Substitute in Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWF4KZ	Revision of Nonautologous Tissue Substitute in Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWF4YZ	Revision of Other Device in Abdominal Wall, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWG00Z	Revision of Drainage Device in Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WWG01Z	Revision of Radioactive Element in Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WWG03Z	Revision of Infusion Device in Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WWG0JZ	Revision of Synthetic Substitute in Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WWG0YZ	Revision of Other Device in Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
0WWG30Z	Revision of Drainage Device in Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWG33Z	Revision of Infusion Device in Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWG3JZ	Revision of Synthetic Substitute in Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWG3YZ	Revision of Other Device in Peritoneal Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWG40Z	Revision of Drainage Device in Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WWG41Z	Revision of Radioactive Element in Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWG43Z	Revision of Infusion Device in Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWG4JZ	Revision of Synthetic Substitute in Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWG4YZ	Revision of Other Device in Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWH00Z	Revision of Drainage Device in Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WWH01Z	Revision of Radioactive Element in Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WWH03Z	Revision of Infusion Device in Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WWH0YZ	Revision of Other Device in Retroperitoneum, Open Approach	PX	ICD-10-PCS
0WWH30Z	Revision of Drainage Device in Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0WWH33Z	Revision of Infusion Device in Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0WWH3YZ	Revision of Other Device in Retroperitoneum, Percutaneous Approach	PX	ICD-10-PCS
0WWH40Z	Revision of Drainage Device in Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWH41Z	Revision of Radioactive Element in Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWH43Z	Revision of Infusion Device in Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWH4YZ	Revision of Other Device in Retroperitoneum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWJ00Z	Revision of Drainage Device in Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WWJ01Z	Revision of Radioactive Element in Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WWJ03Z	Revision of Infusion Device in Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WWJ0JZ	Revision of Synthetic Substitute in Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WWJ0YZ	Revision of Other Device in Pelvic Cavity, Open Approach	PX	ICD-10-PCS
0WWJ30Z	Revision of Drainage Device in Pelvic Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWJ33Z	Revision of Infusion Device in Pelvic Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWJ3JZ	Revision of Synthetic Substitute in Pelvic Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWJ3YZ	Revision of Other Device in Pelvic Cavity, Percutaneous Approach	PX	ICD-10-PCS
0WWJ40Z	Revision of Drainage Device in Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWJ41Z	Revision of Radioactive Element in Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWJ43Z	Revision of Infusion Device in Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWJ4JZ	Revision of Synthetic Substitute in Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWJ4YZ	Revision of Other Device in Pelvic Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWK00Z	Revision of Drainage Device in Upper Back, Open Approach	PX	ICD-10-PCS
0WWK01Z	Revision of Radioactive Element in Upper Back, Open Approach	PX	ICD-10-PCS
0WWK03Z	Revision of Infusion Device in Upper Back, Open Approach	PX	ICD-10-PCS
0WWK07Z	Revision of Autologous Tissue Substitute in Upper Back, Open Approach	PX	ICD-10-PCS
0WWK0JZ	Revision of Synthetic Substitute in Upper Back, Open Approach	PX	ICD-10-PCS
0WWK0KZ	Revision of Nonautologous Tissue Substitute in Upper Back, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WWK0YZ	Revision of Other Device in Upper Back, Open Approach	PX	ICD-10-PCS
0WWK40Z	Revision of Drainage Device in Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWK41Z	Revision of Radioactive Element in Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWK43Z	Revision of Infusion Device in Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWK47Z	Revision of Autologous Tissue Substitute in Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWK4JZ	Revision of Synthetic Substitute in Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWK4KZ	Revision of Nonautologous Tissue Substitute in Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWK4YZ	Revision of Other Device in Upper Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWL00Z	Revision of Drainage Device in Lower Back, Open Approach	PX	ICD-10-PCS
0WWL01Z	Revision of Radioactive Element in Lower Back, Open Approach	PX	ICD-10-PCS
0WWL03Z	Revision of Infusion Device in Lower Back, Open Approach	PX	ICD-10-PCS
0WWL07Z	Revision of Autologous Tissue Substitute in Lower Back, Open Approach	PX	ICD-10-PCS
0WWL0JZ	Revision of Synthetic Substitute in Lower Back, Open Approach	PX	ICD-10-PCS
0WWL0KZ	Revision of Nonautologous Tissue Substitute in Lower Back, Open Approach	PX	ICD-10-PCS
0WWL0YZ	Revision of Other Device in Lower Back, Open Approach	PX	ICD-10-PCS
0WWL40Z	Revision of Drainage Device in Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWL41Z	Revision of Radioactive Element in Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWL43Z	Revision of Infusion Device in Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWL47Z	Revision of Autologous Tissue Substitute in Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWL4JZ	Revision of Synthetic Substitute in Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWL4KZ	Revision of Nonautologous Tissue Substitute in Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWL4YZ	Revision of Other Device in Lower Back, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWM00Z	Revision of Drainage Device in Male Perineum, Open Approach	PX	ICD-10-PCS
0WWM01Z	Revision of Radioactive Element in Male Perineum, Open Approach	PX	ICD-10-PCS
0WWM03Z	Revision of Infusion Device in Male Perineum, Open Approach	PX	ICD-10-PCS
0WWM07Z	Revision of Autologous Tissue Substitute in Male Perineum, Open Approach	PX	ICD-10-PCS
0WWM0JZ	Revision of Synthetic Substitute in Male Perineum, Open Approach	PX	ICD-10-PCS
0WWM0KZ	Revision of Nonautologous Tissue Substitute in Male Perineum, Open Approach	PX	ICD-10-PCS
0WWM0YZ	Revision of Other Device in Male Perineum, Open Approach	PX	ICD-10-PCS
0WWM37Z	Revision of Autologous Tissue Substitute in Male Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WWM3KZ	Revision of Nonautologous Tissue Substitute in Male Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WWM40Z	Revision of Drainage Device in Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWM41Z	Revision of Radioactive Element in Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WWM43Z	Revision of Infusion Device in Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWM47Z	Revision of Autologous Tissue Substitute in Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWM4JZ	Revision of Synthetic Substitute in Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWM4KZ	Revision of Nonautologous Tissue Substitute in Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWM4YZ	Revision of Other Device in Male Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWN00Z	Revision of Drainage Device in Female Perineum, Open Approach	PX	ICD-10-PCS
0WWN01Z	Revision of Radioactive Element in Female Perineum, Open Approach	PX	ICD-10-PCS
0WWN03Z	Revision of Infusion Device in Female Perineum, Open Approach	PX	ICD-10-PCS
0WWN07Z	Revision of Autologous Tissue Substitute in Female Perineum, Open Approach	PX	ICD-10-PCS
0WWN0JZ	Revision of Synthetic Substitute in Female Perineum, Open Approach	PX	ICD-10-PCS
0WWN0KZ	Revision of Nonautologous Tissue Substitute in Female Perineum, Open Approach	PX	ICD-10-PCS
0WWN0YZ	Revision of Other Device in Female Perineum, Open Approach	PX	ICD-10-PCS
0WWN30Z	Revision of Drainage Device in Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WWN33Z	Revision of Infusion Device in Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WWN37Z	Revision of Autologous Tissue Substitute in Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WWN3JZ	Revision of Synthetic Substitute in Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WWN3KZ	Revision of Nonautologous Tissue Substitute in Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WWN3YZ	Revision of Other Device in Female Perineum, Percutaneous Approach	PX	ICD-10-PCS
0WWN40Z	Revision of Drainage Device in Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWN41Z	Revision of Radioactive Element in Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWN43Z	Revision of Infusion Device in Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWN47Z	Revision of Autologous Tissue Substitute in Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWN4JZ	Revision of Synthetic Substitute in Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWN4KZ	Revision of Nonautologous Tissue Substitute in Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWN4YZ	Revision of Other Device in Female Perineum, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWP01Z	Revision of Radioactive Element in Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WWP03Z	Revision of Infusion Device in Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WWP0YZ	Revision of Other Device in Gastrointestinal Tract, Open Approach	PX	ICD-10-PCS
0WWP41Z	Revision of Radioactive Element in Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0WWP43Z	Revision of Infusion Device in Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWP4YZ	Revision of Other Device in Gastrointestinal Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWQ01Z	Revision of Radioactive Element in Respiratory Tract, Open Approach	PX	ICD-10-PCS
0WWQ03Z	Revision of Infusion Device in Respiratory Tract, Open Approach	PX	ICD-10-PCS
0WWQ0YZ	Revision of Other Device in Respiratory Tract, Open Approach	PX	ICD-10-PCS
0WWQ33Z	Revision of Infusion Device in Respiratory Tract, Percutaneous Approach	PX	ICD-10-PCS
0WWQ3YZ	Revision of Other Device in Respiratory Tract, Percutaneous Approach	PX	ICD-10-PCS
0WWQ41Z	Revision of Radioactive Element in Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWQ43Z	Revision of Infusion Device in Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWQ4YZ	Revision of Other Device in Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWR01Z	Revision of Radioactive Element in Genitourinary Tract, Open Approach	PX	ICD-10-PCS
0WWR03Z	Revision of Infusion Device in Genitourinary Tract, Open Approach	PX	ICD-10-PCS
0WWR0YZ	Revision of Other Device in Genitourinary Tract, Open Approach	PX	ICD-10-PCS
0WWR41Z	Revision of Radioactive Element in Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWR43Z	Revision of Infusion Device in Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WWR4YZ	Revision of Other Device in Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0WY20Z0	Transplantation of Face, Allogeneic, Open Approach	PX	ICD-10-PCS
0WY20Z1	Transplantation of Face, Syngeneic, Open Approach	PX	ICD-10-PCS
0X0207Z	Alteration of Right Shoulder Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X020JZ	Alteration of Right Shoulder Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X020KZ	Alteration of Right Shoulder Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X020ZZ	Alteration of Right Shoulder Region, Open Approach	PX	ICD-10-PCS
0X0237Z	Alteration of Right Shoulder Region with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X023JZ	Alteration of Right Shoulder Region with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X023KZ	Alteration of Right Shoulder Region with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X023ZZ	Alteration of Right Shoulder Region, Percutaneous Approach	PX	ICD-10-PCS
0X0247Z	Alteration of Right Shoulder Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X024JZ	Alteration of Right Shoulder Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X024KZ	Alteration of Right Shoulder Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0X024ZZ	Alteration of Right Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0307Z	Alteration of Left Shoulder Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X030JZ	Alteration of Left Shoulder Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X030KZ	Alteration of Left Shoulder Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X030ZZ	Alteration of Left Shoulder Region, Open Approach	PX	ICD-10-PCS
0X0337Z	Alteration of Left Shoulder Region with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X033JZ	Alteration of Left Shoulder Region with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X033KZ	Alteration of Left Shoulder Region with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X033ZZ	Alteration of Left Shoulder Region, Percutaneous Approach	PX	ICD-10-PCS
0X0347Z	Alteration of Left Shoulder Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X034JZ	Alteration of Left Shoulder Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X034KZ	Alteration of Left Shoulder Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X034ZZ	Alteration of Left Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0407Z	Alteration of Right Axilla with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X040JZ	Alteration of Right Axilla with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X040KZ	Alteration of Right Axilla with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X040ZZ	Alteration of Right Axilla, Open Approach	PX	ICD-10-PCS
0X0437Z	Alteration of Right Axilla with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X043JZ	Alteration of Right Axilla with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X043KZ	Alteration of Right Axilla with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X043ZZ	Alteration of Right Axilla, Percutaneous Approach	PX	ICD-10-PCS
0X0447Z	Alteration of Right Axilla with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X044JZ	Alteration of Right Axilla with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X044KZ	Alteration of Right Axilla with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X044ZZ	Alteration of Right Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0507Z	Alteration of Left Axilla with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X050JZ	Alteration of Left Axilla with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X050KZ	Alteration of Left Axilla with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X050ZZ	Alteration of Left Axilla, Open Approach	PX	ICD-10-PCS
0X0537Z	Alteration of Left Axilla with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X053JZ	Alteration of Left Axilla with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0X053KZ	Alteration of Left Axilla with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X053ZZ	Alteration of Left Axilla, Percutaneous Approach	PX	ICD-10-PCS
0X0547Z	Alteration of Left Axilla with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X054JZ	Alteration of Left Axilla with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X054KZ	Alteration of Left Axilla with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X054ZZ	Alteration of Left Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0607Z	Alteration of Right Upper Extremity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X060JZ	Alteration of Right Upper Extremity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X060KZ	Alteration of Right Upper Extremity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X060ZZ	Alteration of Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0X0637Z	Alteration of Right Upper Extremity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X063JZ	Alteration of Right Upper Extremity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X063KZ	Alteration of Right Upper Extremity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X063ZZ	Alteration of Right Upper Extremity, Percutaneous Approach	PX	ICD-10-PCS
0X0647Z	Alteration of Right Upper Extremity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X064JZ	Alteration of Right Upper Extremity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X064KZ	Alteration of Right Upper Extremity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X064ZZ	Alteration of Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0707Z	Alteration of Left Upper Extremity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X070JZ	Alteration of Left Upper Extremity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X070KZ	Alteration of Left Upper Extremity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X070ZZ	Alteration of Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0X0737Z	Alteration of Left Upper Extremity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X073JZ	Alteration of Left Upper Extremity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X073KZ	Alteration of Left Upper Extremity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X073ZZ	Alteration of Left Upper Extremity, Percutaneous Approach	PX	ICD-10-PCS
0X0747Z	Alteration of Left Upper Extremity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0X074JZ	Alteration of Left Upper Extremity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X074KZ	Alteration of Left Upper Extremity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X074ZZ	Alteration of Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0807Z	Alteration of Right Upper Arm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X080JZ	Alteration of Right Upper Arm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X080KZ	Alteration of Right Upper Arm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X080ZZ	Alteration of Right Upper Arm, Open Approach	PX	ICD-10-PCS
0X0837Z	Alteration of Right Upper Arm with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X083JZ	Alteration of Right Upper Arm with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X083KZ	Alteration of Right Upper Arm with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X083ZZ	Alteration of Right Upper Arm, Percutaneous Approach	PX	ICD-10-PCS
0X0847Z	Alteration of Right Upper Arm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X084JZ	Alteration of Right Upper Arm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X084KZ	Alteration of Right Upper Arm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X084ZZ	Alteration of Right Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0907Z	Alteration of Left Upper Arm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X090JZ	Alteration of Left Upper Arm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X090KZ	Alteration of Left Upper Arm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X090ZZ	Alteration of Left Upper Arm, Open Approach	PX	ICD-10-PCS
0X0937Z	Alteration of Left Upper Arm with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X093JZ	Alteration of Left Upper Arm with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X093KZ	Alteration of Left Upper Arm with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X093ZZ	Alteration of Left Upper Arm, Percutaneous Approach	PX	ICD-10-PCS
0X0947Z	Alteration of Left Upper Arm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X094JZ	Alteration of Left Upper Arm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X094KZ	Alteration of Left Upper Arm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X094ZZ	Alteration of Left Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0X0B07Z	Alteration of Right Elbow Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0B0JZ	Alteration of Right Elbow Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X0B0KZ	Alteration of Right Elbow Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0B0ZZ	Alteration of Right Elbow Region, Open Approach	PX	ICD-10-PCS
0X0B37Z	Alteration of Right Elbow Region with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0B3JZ	Alteration of Right Elbow Region with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0B3KZ	Alteration of Right Elbow Region with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0B3ZZ	Alteration of Right Elbow Region, Percutaneous Approach	PX	ICD-10-PCS
0X0B47Z	Alteration of Right Elbow Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0B4JZ	Alteration of Right Elbow Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0B4KZ	Alteration of Right Elbow Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0B4ZZ	Alteration of Right Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0C07Z	Alteration of Left Elbow Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0C0JZ	Alteration of Left Elbow Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X0C0KZ	Alteration of Left Elbow Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0C0ZZ	Alteration of Left Elbow Region, Open Approach	PX	ICD-10-PCS
0X0C37Z	Alteration of Left Elbow Region with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0C3JZ	Alteration of Left Elbow Region with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0C3KZ	Alteration of Left Elbow Region with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0C3ZZ	Alteration of Left Elbow Region, Percutaneous Approach	PX	ICD-10-PCS
0X0C47Z	Alteration of Left Elbow Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0C4JZ	Alteration of Left Elbow Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0C4KZ	Alteration of Left Elbow Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0C4ZZ	Alteration of Left Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0D07Z	Alteration of Right Lower Arm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0D0JZ	Alteration of Right Lower Arm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X0D0KZ	Alteration of Right Lower Arm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0X0D0ZZ	Alteration of Right Lower Arm, Open Approach	PX	ICD-10-PCS
0X0D37Z	Alteration of Right Lower Arm with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0D3JZ	Alteration of Right Lower Arm with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0D3KZ	Alteration of Right Lower Arm with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0D3ZZ	Alteration of Right Lower Arm, Percutaneous Approach	PX	ICD-10-PCS
0X0D47Z	Alteration of Right Lower Arm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0D4JZ	Alteration of Right Lower Arm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0D4KZ	Alteration of Right Lower Arm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0D4ZZ	Alteration of Right Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0F07Z	Alteration of Left Lower Arm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0F0JZ	Alteration of Left Lower Arm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X0F0KZ	Alteration of Left Lower Arm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0F0ZZ	Alteration of Left Lower Arm, Open Approach	PX	ICD-10-PCS
0X0F37Z	Alteration of Left Lower Arm with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0F3JZ	Alteration of Left Lower Arm with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0F3KZ	Alteration of Left Lower Arm with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0F3ZZ	Alteration of Left Lower Arm, Percutaneous Approach	PX	ICD-10-PCS
0X0F47Z	Alteration of Left Lower Arm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0F4JZ	Alteration of Left Lower Arm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0F4KZ	Alteration of Left Lower Arm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0F4ZZ	Alteration of Left Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0G07Z	Alteration of Right Wrist Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0G0JZ	Alteration of Right Wrist Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X0G0KZ	Alteration of Right Wrist Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0G0ZZ	Alteration of Right Wrist Region, Open Approach	PX	ICD-10-PCS
0X0G37Z	Alteration of Right Wrist Region with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0G3JZ	Alteration of Right Wrist Region with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0G3KZ	Alteration of Right Wrist Region with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0X0G3ZZ	Alteration of Right Wrist Region, Percutaneous Approach	PX	ICD-10-PCS
0X0G47Z	Alteration of Right Wrist Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0G4JZ	Alteration of Right Wrist Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0G4KZ	Alteration of Right Wrist Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0G4ZZ	Alteration of Right Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0H07Z	Alteration of Left Wrist Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0H0JZ	Alteration of Left Wrist Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0X0H0KZ	Alteration of Left Wrist Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0X0H0ZZ	Alteration of Left Wrist Region, Open Approach	PX	ICD-10-PCS
0X0H37Z	Alteration of Left Wrist Region with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0H3JZ	Alteration of Left Wrist Region with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0H3KZ	Alteration of Left Wrist Region with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0X0H3ZZ	Alteration of Left Wrist Region, Percutaneous Approach	PX	ICD-10-PCS
0X0H47Z	Alteration of Left Wrist Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0H4JZ	Alteration of Left Wrist Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0H4KZ	Alteration of Left Wrist Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X0H4ZZ	Alteration of Left Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X320ZZ	Control Bleeding in Right Shoulder Region, Open Approach	PX	ICD-10-PCS
0X323ZZ	Control Bleeding in Right Shoulder Region, Percutaneous Approach	PX	ICD-10-PCS
0X324ZZ	Control Bleeding in Right Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X330ZZ	Control Bleeding in Left Shoulder Region, Open Approach	PX	ICD-10-PCS
0X333ZZ	Control Bleeding in Left Shoulder Region, Percutaneous Approach	PX	ICD-10-PCS
0X334ZZ	Control Bleeding in Left Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X340ZZ	Control Bleeding in Right Axilla, Open Approach	PX	ICD-10-PCS
0X343ZZ	Control Bleeding in Right Axilla, Percutaneous Approach	PX	ICD-10-PCS
0X344ZZ	Control Bleeding in Right Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X350ZZ	Control Bleeding in Left Axilla, Open Approach	PX	ICD-10-PCS
0X353ZZ	Control Bleeding in Left Axilla, Percutaneous Approach	PX	ICD-10-PCS
0X354ZZ	Control Bleeding in Left Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X360ZZ	Control Bleeding in Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0X363ZZ	Control Bleeding in Right Upper Extremity, Percutaneous Approach	PX	ICD-10-PCS
0X364ZZ	Control Bleeding in Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X370ZZ	Control Bleeding in Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0X373ZZ	Control Bleeding in Left Upper Extremity, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0X374ZZ	Control Bleeding in Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X380ZZ	Control Bleeding in Right Upper Arm, Open Approach	PX	ICD-10-PCS
0X383ZZ	Control Bleeding in Right Upper Arm, Percutaneous Approach	PX	ICD-10-PCS
0X384ZZ	Control Bleeding in Right Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X390ZZ	Control Bleeding in Left Upper Arm, Open Approach	PX	ICD-10-PCS
0X393ZZ	Control Bleeding in Left Upper Arm, Percutaneous Approach	PX	ICD-10-PCS
0X394ZZ	Control Bleeding in Left Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X3B0ZZ	Control Bleeding in Right Elbow Region, Open Approach	PX	ICD-10-PCS
0X3B3ZZ	Control Bleeding in Right Elbow Region, Percutaneous Approach	PX	ICD-10-PCS
0X3B4ZZ	Control Bleeding in Right Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X3C0ZZ	Control Bleeding in Left Elbow Region, Open Approach	PX	ICD-10-PCS
0X3C3ZZ	Control Bleeding in Left Elbow Region, Percutaneous Approach	PX	ICD-10-PCS
0X3C4ZZ	Control Bleeding in Left Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X3D0ZZ	Control Bleeding in Right Lower Arm, Open Approach	PX	ICD-10-PCS
0X3D3ZZ	Control Bleeding in Right Lower Arm, Percutaneous Approach	PX	ICD-10-PCS
0X3D4ZZ	Control Bleeding in Right Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X3F0ZZ	Control Bleeding in Left Lower Arm, Open Approach	PX	ICD-10-PCS
0X3F3ZZ	Control Bleeding in Left Lower Arm, Percutaneous Approach	PX	ICD-10-PCS
0X3F4ZZ	Control Bleeding in Left Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X3G0ZZ	Control Bleeding in Right Wrist Region, Open Approach	PX	ICD-10-PCS
0X3G3ZZ	Control Bleeding in Right Wrist Region, Percutaneous Approach	PX	ICD-10-PCS
0X3G4ZZ	Control Bleeding in Right Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X3H0ZZ	Control Bleeding in Left Wrist Region, Open Approach	PX	ICD-10-PCS
0X3H3ZZ	Control Bleeding in Left Wrist Region, Percutaneous Approach	PX	ICD-10-PCS
0X3H4ZZ	Control Bleeding in Left Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X3J0ZZ	Control Bleeding in Right Hand, Open Approach	PX	ICD-10-PCS
0X3J3ZZ	Control Bleeding in Right Hand, Percutaneous Approach	PX	ICD-10-PCS
0X3J4ZZ	Control Bleeding in Right Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X3K0ZZ	Control Bleeding in Left Hand, Open Approach	PX	ICD-10-PCS
0X3K3ZZ	Control Bleeding in Left Hand, Percutaneous Approach	PX	ICD-10-PCS
0X3K4ZZ	Control Bleeding in Left Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X600ZZ	Detachment at Right Forequarter, Open Approach	PX	ICD-10-PCS
0X610ZZ	Detachment at Left Forequarter, Open Approach	PX	ICD-10-PCS
0X620ZZ	Detachment at Right Shoulder Region, Open Approach	PX	ICD-10-PCS
0X630ZZ	Detachment at Left Shoulder Region, Open Approach	PX	ICD-10-PCS
0X680Z1	Detachment at Right Upper Arm, High, Open Approach	PX	ICD-10-PCS
0X680Z2	Detachment at Right Upper Arm, Mid, Open Approach	PX	ICD-10-PCS
0X680Z3	Detachment at Right Upper Arm, Low, Open Approach	PX	ICD-10-PCS
0X690Z1	Detachment at Left Upper Arm, High, Open Approach	PX	ICD-10-PCS
0X690Z2	Detachment at Left Upper Arm, Mid, Open Approach	PX	ICD-10-PCS
0X690Z3	Detachment at Left Upper Arm, Low, Open Approach	PX	ICD-10-PCS
0X6B0ZZ	Detachment at Right Elbow Region, Open Approach	PX	ICD-10-PCS
0X6C0ZZ	Detachment at Left Elbow Region, Open Approach	PX	ICD-10-PCS
0X6D0Z1	Detachment at Right Lower Arm, High, Open Approach	PX	ICD-10-PCS
0X6D0Z2	Detachment at Right Lower Arm, Mid, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0X6D0Z3	Detachment at Right Lower Arm, Low, Open Approach	PX	ICD-10-PCS
0X6F0Z1	Detachment at Left Lower Arm, High, Open Approach	PX	ICD-10-PCS
0X6F0Z2	Detachment at Left Lower Arm, Mid, Open Approach	PX	ICD-10-PCS
0X6F0Z3	Detachment at Left Lower Arm, Low, Open Approach	PX	ICD-10-PCS
0X6J0Z0	Detachment at Right Hand, Complete, Open Approach	PX	ICD-10-PCS
0X6J0Z4	Detachment at Right Hand, Complete 1st Ray, Open Approach	PX	ICD-10-PCS
0X6J0Z5	Detachment at Right Hand, Complete 2nd Ray, Open Approach	PX	ICD-10-PCS
0X6J0Z6	Detachment at Right Hand, Complete 3rd Ray, Open Approach	PX	ICD-10-PCS
0X6J0Z7	Detachment at Right Hand, Complete 4th Ray, Open Approach	PX	ICD-10-PCS
0X6J0Z8	Detachment at Right Hand, Complete 5th Ray, Open Approach	PX	ICD-10-PCS
0X6J0Z9	Detachment at Right Hand, Partial 1st Ray, Open Approach	PX	ICD-10-PCS
0X6J0ZB	Detachment at Right Hand, Partial 2nd Ray, Open Approach	PX	ICD-10-PCS
0X6J0ZC	Detachment at Right Hand, Partial 3rd Ray, Open Approach	PX	ICD-10-PCS
0X6J0ZD	Detachment at Right Hand, Partial 4th Ray, Open Approach	PX	ICD-10-PCS
0X6J0ZF	Detachment at Right Hand, Partial 5th Ray, Open Approach	PX	ICD-10-PCS
0X6K0Z0	Detachment at Left Hand, Complete, Open Approach	PX	ICD-10-PCS
0X6K0Z4	Detachment at Left Hand, Complete 1st Ray, Open Approach	PX	ICD-10-PCS
0X6K0Z5	Detachment at Left Hand, Complete 2nd Ray, Open Approach	PX	ICD-10-PCS
0X6K0Z6	Detachment at Left Hand, Complete 3rd Ray, Open Approach	PX	ICD-10-PCS
0X6K0Z7	Detachment at Left Hand, Complete 4th Ray, Open Approach	PX	ICD-10-PCS
0X6K0Z8	Detachment at Left Hand, Complete 5th Ray, Open Approach	PX	ICD-10-PCS
0X6K0Z9	Detachment at Left Hand, Partial 1st Ray, Open Approach	PX	ICD-10-PCS
0X6K0ZB	Detachment at Left Hand, Partial 2nd Ray, Open Approach	PX	ICD-10-PCS
0X6K0ZC	Detachment at Left Hand, Partial 3rd Ray, Open Approach	PX	ICD-10-PCS
0X6K0ZD	Detachment at Left Hand, Partial 4th Ray, Open Approach	PX	ICD-10-PCS
0X6K0ZF	Detachment at Left Hand, Partial 5th Ray, Open Approach	PX	ICD-10-PCS
0X6L0Z0	Detachment at Right Thumb, Complete, Open Approach	PX	ICD-10-PCS
0X6L0Z1	Detachment at Right Thumb, High, Open Approach	PX	ICD-10-PCS
0X6L0Z2	Detachment at Right Thumb, Mid, Open Approach	PX	ICD-10-PCS
0X6L0Z3	Detachment at Right Thumb, Low, Open Approach	PX	ICD-10-PCS
0X6M0Z0	Detachment at Left Thumb, Complete, Open Approach	PX	ICD-10-PCS
0X6M0Z1	Detachment at Left Thumb, High, Open Approach	PX	ICD-10-PCS
0X6M0Z2	Detachment at Left Thumb, Mid, Open Approach	PX	ICD-10-PCS
0X6M0Z3	Detachment at Left Thumb, Low, Open Approach	PX	ICD-10-PCS
0X6N0Z0	Detachment at Right Index Finger, Complete, Open Approach	PX	ICD-10-PCS
0X6N0Z1	Detachment at Right Index Finger, High, Open Approach	PX	ICD-10-PCS
0X6N0Z2	Detachment at Right Index Finger, Mid, Open Approach	PX	ICD-10-PCS
0X6N0Z3	Detachment at Right Index Finger, Low, Open Approach	PX	ICD-10-PCS
0X6P0Z0	Detachment at Left Index Finger, Complete, Open Approach	PX	ICD-10-PCS
0X6P0Z1	Detachment at Left Index Finger, High, Open Approach	PX	ICD-10-PCS
0X6P0Z2	Detachment at Left Index Finger, Mid, Open Approach	PX	ICD-10-PCS
0X6P0Z3	Detachment at Left Index Finger, Low, Open Approach	PX	ICD-10-PCS
0X6Q0Z0	Detachment at Right Middle Finger, Complete, Open Approach	PX	ICD-10-PCS
0X6Q0Z1	Detachment at Right Middle Finger, High, Open Approach	PX	ICD-10-PCS
0X6Q0Z2	Detachment at Right Middle Finger, Mid, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0X6Q0Z3	Detachment at Right Middle Finger, Low, Open Approach	PX	ICD-10-PCS
0X6R0Z0	Detachment at Left Middle Finger, Complete, Open Approach	PX	ICD-10-PCS
0X6R0Z1	Detachment at Left Middle Finger, High, Open Approach	PX	ICD-10-PCS
0X6R0Z2	Detachment at Left Middle Finger, Mid, Open Approach	PX	ICD-10-PCS
0X6R0Z3	Detachment at Left Middle Finger, Low, Open Approach	PX	ICD-10-PCS
0X6S0Z0	Detachment at Right Ring Finger, Complete, Open Approach	PX	ICD-10-PCS
0X6S0Z1	Detachment at Right Ring Finger, High, Open Approach	PX	ICD-10-PCS
0X6S0Z2	Detachment at Right Ring Finger, Mid, Open Approach	PX	ICD-10-PCS
0X6S0Z3	Detachment at Right Ring Finger, Low, Open Approach	PX	ICD-10-PCS
0X6T0Z0	Detachment at Left Ring Finger, Complete, Open Approach	PX	ICD-10-PCS
0X6T0Z1	Detachment at Left Ring Finger, High, Open Approach	PX	ICD-10-PCS
0X6T0Z2	Detachment at Left Ring Finger, Mid, Open Approach	PX	ICD-10-PCS
0X6T0Z3	Detachment at Left Ring Finger, Low, Open Approach	PX	ICD-10-PCS
0X6V0Z0	Detachment at Right Little Finger, Complete, Open Approach	PX	ICD-10-PCS
0X6V0Z1	Detachment at Right Little Finger, High, Open Approach	PX	ICD-10-PCS
0X6V0Z2	Detachment at Right Little Finger, Mid, Open Approach	PX	ICD-10-PCS
0X6V0Z3	Detachment at Right Little Finger, Low, Open Approach	PX	ICD-10-PCS
0X6W0Z0	Detachment at Left Little Finger, Complete, Open Approach	PX	ICD-10-PCS
0X6W0Z1	Detachment at Left Little Finger, High, Open Approach	PX	ICD-10-PCS
0X6W0Z2	Detachment at Left Little Finger, Mid, Open Approach	PX	ICD-10-PCS
0X6W0Z3	Detachment at Left Little Finger, Low, Open Approach	PX	ICD-10-PCS
0X9240Z	Drainage of Right Shoulder Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X924ZZ	Drainage of Right Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9340Z	Drainage of Left Shoulder Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X934ZZ	Drainage of Left Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9440Z	Drainage of Right Axilla with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X944ZZ	Drainage of Right Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9540Z	Drainage of Left Axilla with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X954ZZ	Drainage of Left Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9640Z	Drainage of Right Upper Extremity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X964ZZ	Drainage of Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9740Z	Drainage of Left Upper Extremity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X974ZZ	Drainage of Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9840Z	Drainage of Right Upper Arm with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X984ZZ	Drainage of Right Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9940Z	Drainage of Left Upper Arm with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X994ZZ	Drainage of Left Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0X9B40Z	Drainage of Right Elbow Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9B4ZZ	Drainage of Right Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9C40Z	Drainage of Left Elbow Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9C4ZZ	Drainage of Left Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9D40Z	Drainage of Right Lower Arm with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9D4ZZ	Drainage of Right Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9F40Z	Drainage of Left Lower Arm with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9F4ZZ	Drainage of Left Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9G40Z	Drainage of Right Wrist Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9G4ZZ	Drainage of Right Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9H40Z	Drainage of Left Wrist Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9H4ZZ	Drainage of Left Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9J40Z	Drainage of Right Hand with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9J4ZZ	Drainage of Right Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9K40Z	Drainage of Left Hand with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0X9K4ZZ	Drainage of Left Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XB20ZZ	Excision of Right Shoulder Region, Open Approach	PX	ICD-10-PCS
0XB23ZZ	Excision of Right Shoulder Region, Percutaneous Approach	PX	ICD-10-PCS
0XB24ZZ	Excision of Right Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XB30ZZ	Excision of Left Shoulder Region, Open Approach	PX	ICD-10-PCS
0XB33ZZ	Excision of Left Shoulder Region, Percutaneous Approach	PX	ICD-10-PCS
0XB34ZZ	Excision of Left Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XB40ZZ	Excision of Right Axilla, Open Approach	PX	ICD-10-PCS
0XB43ZZ	Excision of Right Axilla, Percutaneous Approach	PX	ICD-10-PCS
0XB44ZZ	Excision of Right Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XB50ZZ	Excision of Left Axilla, Open Approach	PX	ICD-10-PCS
0XB53ZZ	Excision of Left Axilla, Percutaneous Approach	PX	ICD-10-PCS
0XB54ZZ	Excision of Left Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XB60ZZ	Excision of Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XB63ZZ	Excision of Right Upper Extremity, Percutaneous Approach	PX	ICD-10-PCS
0XB64ZZ	Excision of Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XB70ZZ	Excision of Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XB73ZZ	Excision of Left Upper Extremity, Percutaneous Approach	PX	ICD-10-PCS
0XB74ZZ	Excision of Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XB80ZZ	Excision of Right Upper Arm, Open Approach	PX	ICD-10-PCS
0XB83ZZ	Excision of Right Upper Arm, Percutaneous Approach	PX	ICD-10-PCS
0XB84ZZ	Excision of Right Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XB90ZZ	Excision of Left Upper Arm, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XB93ZZ	Excision of Left Upper Arm, Percutaneous Approach	PX	ICD-10-PCS
0XB94ZZ	Excision of Left Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XBB0ZZ	Excision of Right Elbow Region, Open Approach	PX	ICD-10-PCS
0XBB3ZZ	Excision of Right Elbow Region, Percutaneous Approach	PX	ICD-10-PCS
0XBB4ZZ	Excision of Right Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XBC0ZZ	Excision of Left Elbow Region, Open Approach	PX	ICD-10-PCS
0XBC3ZZ	Excision of Left Elbow Region, Percutaneous Approach	PX	ICD-10-PCS
0XBC4ZZ	Excision of Left Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XBD0ZZ	Excision of Right Lower Arm, Open Approach	PX	ICD-10-PCS
0XBD3ZZ	Excision of Right Lower Arm, Percutaneous Approach	PX	ICD-10-PCS
0XBD4ZZ	Excision of Right Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XBF0ZZ	Excision of Left Lower Arm, Open Approach	PX	ICD-10-PCS
0XBF3ZZ	Excision of Left Lower Arm, Percutaneous Approach	PX	ICD-10-PCS
0XBF4ZZ	Excision of Left Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XBG0ZZ	Excision of Right Wrist Region, Open Approach	PX	ICD-10-PCS
0XBG3ZZ	Excision of Right Wrist Region, Percutaneous Approach	PX	ICD-10-PCS
0XBG4ZZ	Excision of Right Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XBH0ZZ	Excision of Left Wrist Region, Open Approach	PX	ICD-10-PCS
0XBH3ZZ	Excision of Left Wrist Region, Percutaneous Approach	PX	ICD-10-PCS
0XBH4ZZ	Excision of Left Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XBJ0ZZ	Excision of Right Hand, Open Approach	PX	ICD-10-PCS
0XBJ3ZZ	Excision of Right Hand, Percutaneous Approach	PX	ICD-10-PCS
0XBJ4ZZ	Excision of Right Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XBK0ZZ	Excision of Left Hand, Open Approach	PX	ICD-10-PCS
0XBK3ZZ	Excision of Left Hand, Percutaneous Approach	PX	ICD-10-PCS
0XBK4ZZ	Excision of Left Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH201Z	Insertion of Radioactive Element into Right Shoulder Region, Open Approach	PX	ICD-10-PCS
0XH203Z	Insertion of Infusion Device into Right Shoulder Region, Open Approach	PX	ICD-10-PCS
0XH20YZ	Insertion of Other Device into Right Shoulder Region, Open Approach	PX	ICD-10-PCS
0XH241Z	Insertion of Radioactive Element into Right Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH243Z	Insertion of Infusion Device into Right Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH24YZ	Insertion of Other Device into Right Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH301Z	Insertion of Radioactive Element into Left Shoulder Region, Open Approach	PX	ICD-10-PCS
0XH303Z	Insertion of Infusion Device into Left Shoulder Region, Open Approach	PX	ICD-10-PCS
0XH30YZ	Insertion of Other Device into Left Shoulder Region, Open Approach	PX	ICD-10-PCS
0XH341Z	Insertion of Radioactive Element into Left Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH343Z	Insertion of Infusion Device into Left Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH34YZ	Insertion of Other Device into Left Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH401Z	Insertion of Radioactive Element into Right Axilla, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XH403Z	Insertion of Infusion Device into Right Axilla, Open Approach	PX	ICD-10-PCS
0XH40YZ	Insertion of Other Device into Right Axilla, Open Approach	PX	ICD-10-PCS
0XH441Z	Insertion of Radioactive Element into Right Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH443Z	Insertion of Infusion Device into Right Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH44YZ	Insertion of Other Device into Right Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH501Z	Insertion of Radioactive Element into Left Axilla, Open Approach	PX	ICD-10-PCS
0XH503Z	Insertion of Infusion Device into Left Axilla, Open Approach	PX	ICD-10-PCS
0XH50YZ	Insertion of Other Device into Left Axilla, Open Approach	PX	ICD-10-PCS
0XH541Z	Insertion of Radioactive Element into Left Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH543Z	Insertion of Infusion Device into Left Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH54YZ	Insertion of Other Device into Left Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH601Z	Insertion of Radioactive Element into Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XH603Z	Insertion of Infusion Device into Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XH60YZ	Insertion of Other Device into Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XH641Z	Insertion of Radioactive Element into Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH643Z	Insertion of Infusion Device into Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH64YZ	Insertion of Other Device into Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH701Z	Insertion of Radioactive Element into Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XH703Z	Insertion of Infusion Device into Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XH70YZ	Insertion of Other Device into Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XH741Z	Insertion of Radioactive Element into Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH743Z	Insertion of Infusion Device into Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH74YZ	Insertion of Other Device into Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH801Z	Insertion of Radioactive Element into Right Upper Arm, Open Approach	PX	ICD-10-PCS
0XH803Z	Insertion of Infusion Device into Right Upper Arm, Open Approach	PX	ICD-10-PCS
0XH80YZ	Insertion of Other Device into Right Upper Arm, Open Approach	PX	ICD-10-PCS
0XH841Z	Insertion of Radioactive Element into Right Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH843Z	Insertion of Infusion Device into Right Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH84YZ	Insertion of Other Device into Right Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH901Z	Insertion of Radioactive Element into Left Upper Arm, Open Approach	PX	ICD-10-PCS
0XH903Z	Insertion of Infusion Device into Left Upper Arm, Open Approach	PX	ICD-10-PCS
0XH90YZ	Insertion of Other Device into Left Upper Arm, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XH941Z	Insertion of Radioactive Element into Left Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH943Z	Insertion of Infusion Device into Left Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XH94YZ	Insertion of Other Device into Left Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHB01Z	Insertion of Radioactive Element into Right Elbow Region, Open Approach	PX	ICD-10-PCS
0XHB03Z	Insertion of Infusion Device into Right Elbow Region, Open Approach	PX	ICD-10-PCS
0XHB0YZ	Insertion of Other Device into Right Elbow Region, Open Approach	PX	ICD-10-PCS
0XHB41Z	Insertion of Radioactive Element into Right Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHB43Z	Insertion of Infusion Device into Right Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHB4YZ	Insertion of Other Device into Right Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHC01Z	Insertion of Radioactive Element into Left Elbow Region, Open Approach	PX	ICD-10-PCS
0XHC03Z	Insertion of Infusion Device into Left Elbow Region, Open Approach	PX	ICD-10-PCS
0XHC0YZ	Insertion of Other Device into Left Elbow Region, Open Approach	PX	ICD-10-PCS
0XHC41Z	Insertion of Radioactive Element into Left Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHC43Z	Insertion of Infusion Device into Left Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHC4YZ	Insertion of Other Device into Left Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHD01Z	Insertion of Radioactive Element into Right Lower Arm, Open Approach	PX	ICD-10-PCS
0XHD03Z	Insertion of Infusion Device into Right Lower Arm, Open Approach	PX	ICD-10-PCS
0XHD0YZ	Insertion of Other Device into Right Lower Arm, Open Approach	PX	ICD-10-PCS
0XHD41Z	Insertion of Radioactive Element into Right Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHD43Z	Insertion of Infusion Device into Right Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHD4YZ	Insertion of Other Device into Right Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHF01Z	Insertion of Radioactive Element into Left Lower Arm, Open Approach	PX	ICD-10-PCS
0XHF03Z	Insertion of Infusion Device into Left Lower Arm, Open Approach	PX	ICD-10-PCS
0XHF0YZ	Insertion of Other Device into Left Lower Arm, Open Approach	PX	ICD-10-PCS
0XHF41Z	Insertion of Radioactive Element into Left Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHF43Z	Insertion of Infusion Device into Left Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHF4YZ	Insertion of Other Device into Left Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHG01Z	Insertion of Radioactive Element into Right Wrist Region, Open Approach	PX	ICD-10-PCS
0XHG03Z	Insertion of Infusion Device into Right Wrist Region, Open Approach	PX	ICD-10-PCS
0XHG0YZ	Insertion of Other Device into Right Wrist Region, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XHG41Z	Insertion of Radioactive Element into Right Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHG43Z	Insertion of Infusion Device into Right Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHG4YZ	Insertion of Other Device into Right Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHH01Z	Insertion of Radioactive Element into Left Wrist Region, Open Approach	PX	ICD-10-PCS
0XHH03Z	Insertion of Infusion Device into Left Wrist Region, Open Approach	PX	ICD-10-PCS
0XHH0YZ	Insertion of Other Device into Left Wrist Region, Open Approach	PX	ICD-10-PCS
0XHH41Z	Insertion of Radioactive Element into Left Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHH43Z	Insertion of Infusion Device into Left Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHH4YZ	Insertion of Other Device into Left Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHJ01Z	Insertion of Radioactive Element into Right Hand, Open Approach	PX	ICD-10-PCS
0XHJ03Z	Insertion of Infusion Device into Right Hand, Open Approach	PX	ICD-10-PCS
0XHJ0YZ	Insertion of Other Device into Right Hand, Open Approach	PX	ICD-10-PCS
0XHJ41Z	Insertion of Radioactive Element into Right Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHJ43Z	Insertion of Infusion Device into Right Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHJ4YZ	Insertion of Other Device into Right Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHK01Z	Insertion of Radioactive Element into Left Hand, Open Approach	PX	ICD-10-PCS
0XHK03Z	Insertion of Infusion Device into Left Hand, Open Approach	PX	ICD-10-PCS
0XHK0YZ	Insertion of Other Device into Left Hand, Open Approach	PX	ICD-10-PCS
0XHK41Z	Insertion of Radioactive Element into Left Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHK43Z	Insertion of Infusion Device into Left Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XHK4YZ	Insertion of Other Device into Left Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XM00ZZ	Reattachment of Right Forequarter, Open Approach	PX	ICD-10-PCS
0XM10ZZ	Reattachment of Left Forequarter, Open Approach	PX	ICD-10-PCS
0XM20ZZ	Reattachment of Right Shoulder Region, Open Approach	PX	ICD-10-PCS
0XM30ZZ	Reattachment of Left Shoulder Region, Open Approach	PX	ICD-10-PCS
0XM40ZZ	Reattachment of Right Axilla, Open Approach	PX	ICD-10-PCS
0XM50ZZ	Reattachment of Left Axilla, Open Approach	PX	ICD-10-PCS
0XM60ZZ	Reattachment of Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XM70ZZ	Reattachment of Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XM80ZZ	Reattachment of Right Upper Arm, Open Approach	PX	ICD-10-PCS
0XM90ZZ	Reattachment of Left Upper Arm, Open Approach	PX	ICD-10-PCS
0XMB0ZZ	Reattachment of Right Elbow Region, Open Approach	PX	ICD-10-PCS
0XMC0ZZ	Reattachment of Left Elbow Region, Open Approach	PX	ICD-10-PCS
0XMD0ZZ	Reattachment of Right Lower Arm, Open Approach	PX	ICD-10-PCS
0XMF0ZZ	Reattachment of Left Lower Arm, Open Approach	PX	ICD-10-PCS
0XMG0ZZ	Reattachment of Right Wrist Region, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XMH0ZZ	Reattachment of Left Wrist Region, Open Approach	PX	ICD-10-PCS
0XMJ0ZZ	Reattachment of Right Hand, Open Approach	PX	ICD-10-PCS
0XMK0ZZ	Reattachment of Left Hand, Open Approach	PX	ICD-10-PCS
0XML0ZZ	Reattachment of Right Thumb, Open Approach	PX	ICD-10-PCS
0XMM0ZZ	Reattachment of Left Thumb, Open Approach	PX	ICD-10-PCS
0XMN0ZZ	Reattachment of Right Index Finger, Open Approach	PX	ICD-10-PCS
0XMP0ZZ	Reattachment of Left Index Finger, Open Approach	PX	ICD-10-PCS
0XMQ0ZZ	Reattachment of Right Middle Finger, Open Approach	PX	ICD-10-PCS
0XMR0ZZ	Reattachment of Left Middle Finger, Open Approach	PX	ICD-10-PCS
0XMS0ZZ	Reattachment of Right Ring Finger, Open Approach	PX	ICD-10-PCS
0XMT0ZZ	Reattachment of Left Ring Finger, Open Approach	PX	ICD-10-PCS
0XMV0ZZ	Reattachment of Right Little Finger, Open Approach	PX	ICD-10-PCS
0XMW0ZZ	Reattachment of Left Little Finger, Open Approach	PX	ICD-10-PCS
0XP601Z	Removal of Radioactive Element from Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XP607Z	Removal of Autologous Tissue Substitute from Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XP60JZ	Removal of Synthetic Substitute from Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XP60KZ	Removal of Nonautologous Tissue Substitute from Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XP640Z	Removal of Drainage Device from Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP641Z	Removal of Radioactive Element from Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP643Z	Removal of Infusion Device from Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP647Z	Removal of Autologous Tissue Substitute from Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP64JZ	Removal of Synthetic Substitute from Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP64KZ	Removal of Nonautologous Tissue Substitute from Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP64YZ	Removal of Other Device from Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP701Z	Removal of Radioactive Element from Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XP707Z	Removal of Autologous Tissue Substitute from Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XP70JZ	Removal of Synthetic Substitute from Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XP70KZ	Removal of Nonautologous Tissue Substitute from Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XP740Z	Removal of Drainage Device from Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP741Z	Removal of Radioactive Element from Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP743Z	Removal of Infusion Device from Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XP747Z	Removal of Autologous Tissue Substitute from Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP74JZ	Removal of Synthetic Substitute from Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP74KZ	Removal of Nonautologous Tissue Substitute from Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XP74YZ	Removal of Other Device from Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQ20ZZ	Repair Right Shoulder Region, Open Approach	PX	ICD-10-PCS
0XQ23ZZ	Repair Right Shoulder Region, Percutaneous Approach	PX	ICD-10-PCS
0XQ24ZZ	Repair Right Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQ30ZZ	Repair Left Shoulder Region, Open Approach	PX	ICD-10-PCS
0XQ33ZZ	Repair Left Shoulder Region, Percutaneous Approach	PX	ICD-10-PCS
0XQ34ZZ	Repair Left Shoulder Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQ40ZZ	Repair Right Axilla, Open Approach	PX	ICD-10-PCS
0XQ43ZZ	Repair Right Axilla, Percutaneous Approach	PX	ICD-10-PCS
0XQ44ZZ	Repair Right Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQ4XZZ	Repair Right Axilla, External Approach	PX	ICD-10-PCS
0XQ50ZZ	Repair Left Axilla, Open Approach	PX	ICD-10-PCS
0XQ53ZZ	Repair Left Axilla, Percutaneous Approach	PX	ICD-10-PCS
0XQ54ZZ	Repair Left Axilla, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQ5XZZ	Repair Left Axilla, External Approach	PX	ICD-10-PCS
0XQ60ZZ	Repair Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XQ63ZZ	Repair Right Upper Extremity, Percutaneous Approach	PX	ICD-10-PCS
0XQ64ZZ	Repair Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQ6XZZ	Repair Right Upper Extremity, External Approach	PX	ICD-10-PCS
0XQ70ZZ	Repair Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XQ73ZZ	Repair Left Upper Extremity, Percutaneous Approach	PX	ICD-10-PCS
0XQ74ZZ	Repair Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQ7XZZ	Repair Left Upper Extremity, External Approach	PX	ICD-10-PCS
0XQ80ZZ	Repair Right Upper Arm, Open Approach	PX	ICD-10-PCS
0XQ83ZZ	Repair Right Upper Arm, Percutaneous Approach	PX	ICD-10-PCS
0XQ84ZZ	Repair Right Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQ8XZZ	Repair Right Upper Arm, External Approach	PX	ICD-10-PCS
0XQ90ZZ	Repair Left Upper Arm, Open Approach	PX	ICD-10-PCS
0XQ93ZZ	Repair Left Upper Arm, Percutaneous Approach	PX	ICD-10-PCS
0XQ94ZZ	Repair Left Upper Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQ9XZZ	Repair Left Upper Arm, External Approach	PX	ICD-10-PCS
0XQB0ZZ	Repair Right Elbow Region, Open Approach	PX	ICD-10-PCS
0XQB3ZZ	Repair Right Elbow Region, Percutaneous Approach	PX	ICD-10-PCS
0XQB4ZZ	Repair Right Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQC0ZZ	Repair Left Elbow Region, Open Approach	PX	ICD-10-PCS
0XQC3ZZ	Repair Left Elbow Region, Percutaneous Approach	PX	ICD-10-PCS
0XQC4ZZ	Repair Left Elbow Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQD0ZZ	Repair Right Lower Arm, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XQD3ZZ	Repair Right Lower Arm, Percutaneous Approach	PX	ICD-10-PCS
0XQD4ZZ	Repair Right Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQDXZZ	Repair Right Lower Arm, External Approach	PX	ICD-10-PCS
0XQF0ZZ	Repair Left Lower Arm, Open Approach	PX	ICD-10-PCS
0XQF3ZZ	Repair Left Lower Arm, Percutaneous Approach	PX	ICD-10-PCS
0XQF4ZZ	Repair Left Lower Arm, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQFXZZ	Repair Left Lower Arm, External Approach	PX	ICD-10-PCS
0XQG0ZZ	Repair Right Wrist Region, Open Approach	PX	ICD-10-PCS
0XQG3ZZ	Repair Right Wrist Region, Percutaneous Approach	PX	ICD-10-PCS
0XQG4ZZ	Repair Right Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQH0ZZ	Repair Left Wrist Region, Open Approach	PX	ICD-10-PCS
0XQH3ZZ	Repair Left Wrist Region, Percutaneous Approach	PX	ICD-10-PCS
0XQH4ZZ	Repair Left Wrist Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQJ0ZZ	Repair Right Hand, Open Approach	PX	ICD-10-PCS
0XQJ3ZZ	Repair Right Hand, Percutaneous Approach	PX	ICD-10-PCS
0XQJ4ZZ	Repair Right Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQJXZZ	Repair Right Hand, External Approach	PX	ICD-10-PCS
0XQK0ZZ	Repair Left Hand, Open Approach	PX	ICD-10-PCS
0XQK3ZZ	Repair Left Hand, Percutaneous Approach	PX	ICD-10-PCS
0XQK4ZZ	Repair Left Hand, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQKXZZ	Repair Left Hand, External Approach	PX	ICD-10-PCS
0XQL0ZZ	Repair Right Thumb, Open Approach	PX	ICD-10-PCS
0XQL3ZZ	Repair Right Thumb, Percutaneous Approach	PX	ICD-10-PCS
0XQL4ZZ	Repair Right Thumb, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQLXZZ	Repair Right Thumb, External Approach	PX	ICD-10-PCS
0XQM0ZZ	Repair Left Thumb, Open Approach	PX	ICD-10-PCS
0XQM3ZZ	Repair Left Thumb, Percutaneous Approach	PX	ICD-10-PCS
0XQM4ZZ	Repair Left Thumb, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQMXZZ	Repair Left Thumb, External Approach	PX	ICD-10-PCS
0XQN0ZZ	Repair Right Index Finger, Open Approach	PX	ICD-10-PCS
0XQN3ZZ	Repair Right Index Finger, Percutaneous Approach	PX	ICD-10-PCS
0XQN4ZZ	Repair Right Index Finger, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQNXZZ	Repair Right Index Finger, External Approach	PX	ICD-10-PCS
0XQP0ZZ	Repair Left Index Finger, Open Approach	PX	ICD-10-PCS
0XQP3ZZ	Repair Left Index Finger, Percutaneous Approach	PX	ICD-10-PCS
0XQP4ZZ	Repair Left Index Finger, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQPXZZ	Repair Left Index Finger, External Approach	PX	ICD-10-PCS
0XQQ0ZZ	Repair Right Middle Finger, Open Approach	PX	ICD-10-PCS
0XQQ3ZZ	Repair Right Middle Finger, Percutaneous Approach	PX	ICD-10-PCS
0XQQ4ZZ	Repair Right Middle Finger, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQQXZZ	Repair Right Middle Finger, External Approach	PX	ICD-10-PCS
0XQR0ZZ	Repair Left Middle Finger, Open Approach	PX	ICD-10-PCS
0XQR3ZZ	Repair Left Middle Finger, Percutaneous Approach	PX	ICD-10-PCS
0XQR4ZZ	Repair Left Middle Finger, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQRXZZ	Repair Left Middle Finger, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XQS0ZZ	Repair Right Ring Finger, Open Approach	PX	ICD-10-PCS
0XQS3ZZ	Repair Right Ring Finger, Percutaneous Approach	PX	ICD-10-PCS
0XQS4ZZ	Repair Right Ring Finger, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQSXZZ	Repair Right Ring Finger, External Approach	PX	ICD-10-PCS
0XQT0ZZ	Repair Left Ring Finger, Open Approach	PX	ICD-10-PCS
0XQT3ZZ	Repair Left Ring Finger, Percutaneous Approach	PX	ICD-10-PCS
0XQT4ZZ	Repair Left Ring Finger, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQTXZZ	Repair Left Ring Finger, External Approach	PX	ICD-10-PCS
0XQV0ZZ	Repair Right Little Finger, Open Approach	PX	ICD-10-PCS
0XQV3ZZ	Repair Right Little Finger, Percutaneous Approach	PX	ICD-10-PCS
0XQV4ZZ	Repair Right Little Finger, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQVXZZ	Repair Right Little Finger, External Approach	PX	ICD-10-PCS
0XQW0ZZ	Repair Left Little Finger, Open Approach	PX	ICD-10-PCS
0XQW3ZZ	Repair Left Little Finger, Percutaneous Approach	PX	ICD-10-PCS
0XQW4ZZ	Repair Left Little Finger, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XQWXZZ	Repair Left Little Finger, External Approach	PX	ICD-10-PCS
0XRL07N	Replacement of Right Thumb with Right Toe, Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XRL07P	Replacement of Right Thumb with Left Toe, Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XRL47N	Replacement of Right Thumb with Right Toe, Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XRL47P	Replacement of Right Thumb with Left Toe, Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XRM07N	Replacement of Left Thumb with Right Toe, Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XRM07P	Replacement of Left Thumb with Left Toe, Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XRM47N	Replacement of Left Thumb with Right Toe, Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XRM47P	Replacement of Left Thumb with Left Toe, Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU207Z	Supplement Right Shoulder Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU20JZ	Supplement Right Shoulder Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XU20KZ	Supplement Right Shoulder Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU247Z	Supplement Right Shoulder Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU24JZ	Supplement Right Shoulder Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU24KZ	Supplement Right Shoulder Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU307Z	Supplement Left Shoulder Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XU30JZ	Supplement Left Shoulder Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XU30KZ	Supplement Left Shoulder Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU347Z	Supplement Left Shoulder Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU34JZ	Supplement Left Shoulder Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU34KZ	Supplement Left Shoulder Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU407Z	Supplement Right Axilla with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU40JZ	Supplement Right Axilla with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XU40KZ	Supplement Right Axilla with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU447Z	Supplement Right Axilla with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU44JZ	Supplement Right Axilla with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU44KZ	Supplement Right Axilla with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU507Z	Supplement Left Axilla with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU50JZ	Supplement Left Axilla with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XU50KZ	Supplement Left Axilla with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU547Z	Supplement Left Axilla with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU54JZ	Supplement Left Axilla with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU54KZ	Supplement Left Axilla with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU607Z	Supplement Right Upper Extremity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU60JZ	Supplement Right Upper Extremity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XU60KZ	Supplement Right Upper Extremity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU647Z	Supplement Right Upper Extremity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU64JZ	Supplement Right Upper Extremity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU64KZ	Supplement Right Upper Extremity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU707Z	Supplement Left Upper Extremity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU70JZ	Supplement Left Upper Extremity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XU70KZ	Supplement Left Upper Extremity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU747Z	Supplement Left Upper Extremity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XU74JZ	Supplement Left Upper Extremity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU74KZ	Supplement Left Upper Extremity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU807Z	Supplement Right Upper Arm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU80JZ	Supplement Right Upper Arm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XU80KZ	Supplement Right Upper Arm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU847Z	Supplement Right Upper Arm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU84JZ	Supplement Right Upper Arm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU84KZ	Supplement Right Upper Arm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU907Z	Supplement Left Upper Arm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU90JZ	Supplement Left Upper Arm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XU90KZ	Supplement Left Upper Arm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XU947Z	Supplement Left Upper Arm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU94JZ	Supplement Left Upper Arm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XU94KZ	Supplement Left Upper Arm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUB07Z	Supplement Right Elbow Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUB0JZ	Supplement Right Elbow Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUB0KZ	Supplement Right Elbow Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUB47Z	Supplement Right Elbow Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUB4JZ	Supplement Right Elbow Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUB4KZ	Supplement Right Elbow Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUC07Z	Supplement Left Elbow Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUC0JZ	Supplement Left Elbow Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUC0KZ	Supplement Left Elbow Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUC47Z	Supplement Left Elbow Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUC4JZ	Supplement Left Elbow Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XUC4KZ	Supplement Left Elbow Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUD07Z	Supplement Right Lower Arm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUD0JZ	Supplement Right Lower Arm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUD0KZ	Supplement Right Lower Arm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUD47Z	Supplement Right Lower Arm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUD4JZ	Supplement Right Lower Arm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUD4KZ	Supplement Right Lower Arm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUF07Z	Supplement Left Lower Arm with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUF0JZ	Supplement Left Lower Arm with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUF0KZ	Supplement Left Lower Arm with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUF47Z	Supplement Left Lower Arm with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUF4JZ	Supplement Left Lower Arm with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUF4KZ	Supplement Left Lower Arm with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUG07Z	Supplement Right Wrist Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUG0JZ	Supplement Right Wrist Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUG0KZ	Supplement Right Wrist Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUG47Z	Supplement Right Wrist Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUG4JZ	Supplement Right Wrist Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUG4KZ	Supplement Right Wrist Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUH07Z	Supplement Left Wrist Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUH0JZ	Supplement Left Wrist Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUH0KZ	Supplement Left Wrist Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUH47Z	Supplement Left Wrist Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUH4JZ	Supplement Left Wrist Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUH4KZ	Supplement Left Wrist Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XUJ07Z	Supplement Right Hand with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUJ0JZ	Supplement Right Hand with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUJ0KZ	Supplement Right Hand with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUJ47Z	Supplement Right Hand with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUJ4JZ	Supplement Right Hand with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUJ4KZ	Supplement Right Hand with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUK07Z	Supplement Left Hand with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUK0JZ	Supplement Left Hand with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUK0KZ	Supplement Left Hand with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUK47Z	Supplement Left Hand with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUK4JZ	Supplement Left Hand with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUK4KZ	Supplement Left Hand with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUL07Z	Supplement Right Thumb with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUL0JZ	Supplement Right Thumb with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUL0KZ	Supplement Right Thumb with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUL47Z	Supplement Right Thumb with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUL4JZ	Supplement Right Thumb with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUL4KZ	Supplement Right Thumb with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUM07Z	Supplement Left Thumb with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUM0JZ	Supplement Left Thumb with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUM0KZ	Supplement Left Thumb with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUM47Z	Supplement Left Thumb with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUM4JZ	Supplement Left Thumb with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUM4KZ	Supplement Left Thumb with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUN07Z	Supplement Right Index Finger with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUN0JZ	Supplement Right Index Finger with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUN0KZ	Supplement Right Index Finger with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUN47Z	Supplement Right Index Finger with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XUN4JZ	Supplement Right Index Finger with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUN4KZ	Supplement Right Index Finger with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUP07Z	Supplement Left Index Finger with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUP0JZ	Supplement Left Index Finger with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUP0KZ	Supplement Left Index Finger with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUP47Z	Supplement Left Index Finger with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUP4JZ	Supplement Left Index Finger with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUP4KZ	Supplement Left Index Finger with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUQ07Z	Supplement Right Middle Finger with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUQ0JZ	Supplement Right Middle Finger with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUQ0KZ	Supplement Right Middle Finger with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUQ47Z	Supplement Right Middle Finger with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUQ4JZ	Supplement Right Middle Finger with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUQ4KZ	Supplement Right Middle Finger with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUR07Z	Supplement Left Middle Finger with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUR0JZ	Supplement Left Middle Finger with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUR0KZ	Supplement Left Middle Finger with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUR47Z	Supplement Left Middle Finger with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUR4JZ	Supplement Left Middle Finger with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUR4KZ	Supplement Left Middle Finger with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUS07Z	Supplement Right Ring Finger with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUS0JZ	Supplement Right Ring Finger with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUS0KZ	Supplement Right Ring Finger with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUS47Z	Supplement Right Ring Finger with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XUS4JZ	Supplement Right Ring Finger with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUS4KZ	Supplement Right Ring Finger with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUT07Z	Supplement Left Ring Finger with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUT0JZ	Supplement Left Ring Finger with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUT0KZ	Supplement Left Ring Finger with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUT47Z	Supplement Left Ring Finger with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUT4JZ	Supplement Left Ring Finger with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUT4KZ	Supplement Left Ring Finger with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUV07Z	Supplement Right Little Finger with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUV0JZ	Supplement Right Little Finger with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUV0KZ	Supplement Right Little Finger with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUV47Z	Supplement Right Little Finger with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUV4JZ	Supplement Right Little Finger with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUV4KZ	Supplement Right Little Finger with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUW07Z	Supplement Left Little Finger with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUW0JZ	Supplement Left Little Finger with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0XUW0KZ	Supplement Left Little Finger with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0XUW47Z	Supplement Left Little Finger with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUW4JZ	Supplement Left Little Finger with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XUW4KZ	Supplement Left Little Finger with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW600Z	Revision of Drainage Device in Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW603Z	Revision of Infusion Device in Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW607Z	Revision of Autologous Tissue Substitute in Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW60JZ	Revision of Synthetic Substitute in Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW60KZ	Revision of Nonautologous Tissue Substitute in Right Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW60YZ	Revision of Other Device in Right Upper Extremity, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0XW640Z	Revision of Drainage Device in Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW643Z	Revision of Infusion Device in Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW647Z	Revision of Autologous Tissue Substitute in Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW64JZ	Revision of Synthetic Substitute in Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW64KZ	Revision of Nonautologous Tissue Substitute in Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW64YZ	Revision of Other Device in Right Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW700Z	Revision of Drainage Device in Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW703Z	Revision of Infusion Device in Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW707Z	Revision of Autologous Tissue Substitute in Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW70JZ	Revision of Synthetic Substitute in Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW70KZ	Revision of Nonautologous Tissue Substitute in Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW70YZ	Revision of Other Device in Left Upper Extremity, Open Approach	PX	ICD-10-PCS
0XW740Z	Revision of Drainage Device in Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW743Z	Revision of Infusion Device in Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW747Z	Revision of Autologous Tissue Substitute in Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW74JZ	Revision of Synthetic Substitute in Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW74KZ	Revision of Nonautologous Tissue Substitute in Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XW74YZ	Revision of Other Device in Left Upper Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0XXN0ZL	Transfer Right Index Finger to Right Thumb, Open Approach	PX	ICD-10-PCS
0XXP0ZM	Transfer Left Index Finger to Left Thumb, Open Approach	PX	ICD-10-PCS
0XYJ0Z0	Transplantation of Right Hand, Allogeneic, Open Approach	PX	ICD-10-PCS
0XYJ0Z1	Transplantation of Right Hand, Syngeneic, Open Approach	PX	ICD-10-PCS
0XYK0Z0	Transplantation of Left Hand, Allogeneic, Open Approach	PX	ICD-10-PCS
0XYK0Z1	Transplantation of Left Hand, Syngeneic, Open Approach	PX	ICD-10-PCS
0Y0007Z	Alteration of Right Buttock with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y000JZ	Alteration of Right Buttock with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y000KZ	Alteration of Right Buttock with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y000ZZ	Alteration of Right Buttock, Open Approach	PX	ICD-10-PCS
0Y0037Z	Alteration of Right Buttock with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Y003JZ	Alteration of Right Buttock with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y003KZ	Alteration of Right Buttock with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y003ZZ	Alteration of Right Buttock, Percutaneous Approach	PX	ICD-10-PCS
0Y0047Z	Alteration of Right Buttock with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y004JZ	Alteration of Right Buttock with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y004KZ	Alteration of Right Buttock with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y004ZZ	Alteration of Right Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0107Z	Alteration of Left Buttock with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y010JZ	Alteration of Left Buttock with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y010KZ	Alteration of Left Buttock with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y010ZZ	Alteration of Left Buttock, Open Approach	PX	ICD-10-PCS
0Y0137Z	Alteration of Left Buttock with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y013JZ	Alteration of Left Buttock with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y013KZ	Alteration of Left Buttock with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y013ZZ	Alteration of Left Buttock, Percutaneous Approach	PX	ICD-10-PCS
0Y0147Z	Alteration of Left Buttock with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y014JZ	Alteration of Left Buttock with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y014KZ	Alteration of Left Buttock with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y014ZZ	Alteration of Left Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0907Z	Alteration of Right Lower Extremity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y090JZ	Alteration of Right Lower Extremity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y090KZ	Alteration of Right Lower Extremity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y090ZZ	Alteration of Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0Y0937Z	Alteration of Right Lower Extremity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y093JZ	Alteration of Right Lower Extremity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y093KZ	Alteration of Right Lower Extremity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y093ZZ	Alteration of Right Lower Extremity, Percutaneous Approach	PX	ICD-10-PCS
0Y0947Z	Alteration of Right Lower Extremity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Y094JZ	Alteration of Right Lower Extremity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y094KZ	Alteration of Right Lower Extremity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y094ZZ	Alteration of Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0B07Z	Alteration of Left Lower Extremity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0B0JZ	Alteration of Left Lower Extremity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y0B0KZ	Alteration of Left Lower Extremity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0B0ZZ	Alteration of Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0Y0B37Z	Alteration of Left Lower Extremity with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0B3JZ	Alteration of Left Lower Extremity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0B3KZ	Alteration of Left Lower Extremity with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0B3ZZ	Alteration of Left Lower Extremity, Percutaneous Approach	PX	ICD-10-PCS
0Y0B47Z	Alteration of Left Lower Extremity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0B4JZ	Alteration of Left Lower Extremity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0B4KZ	Alteration of Left Lower Extremity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0B4ZZ	Alteration of Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0C07Z	Alteration of Right Upper Leg with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0C0JZ	Alteration of Right Upper Leg with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y0C0KZ	Alteration of Right Upper Leg with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0C0ZZ	Alteration of Right Upper Leg, Open Approach	PX	ICD-10-PCS
0Y0C37Z	Alteration of Right Upper Leg with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0C3JZ	Alteration of Right Upper Leg with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0C3KZ	Alteration of Right Upper Leg with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0C3ZZ	Alteration of Right Upper Leg, Percutaneous Approach	PX	ICD-10-PCS
0Y0C47Z	Alteration of Right Upper Leg with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0C4JZ	Alteration of Right Upper Leg with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0C4KZ	Alteration of Right Upper Leg with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0C4ZZ	Alteration of Right Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0D07Z	Alteration of Left Upper Leg with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Y0D0JZ	Alteration of Left Upper Leg with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y0D0KZ	Alteration of Left Upper Leg with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0D0ZZ	Alteration of Left Upper Leg, Open Approach	PX	ICD-10-PCS
0Y0D37Z	Alteration of Left Upper Leg with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0D3JZ	Alteration of Left Upper Leg with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0D3KZ	Alteration of Left Upper Leg with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0D3ZZ	Alteration of Left Upper Leg, Percutaneous Approach	PX	ICD-10-PCS
0Y0D47Z	Alteration of Left Upper Leg with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0D4JZ	Alteration of Left Upper Leg with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0D4KZ	Alteration of Left Upper Leg with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0D4ZZ	Alteration of Left Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0F07Z	Alteration of Right Knee Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0F0JZ	Alteration of Right Knee Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y0F0KZ	Alteration of Right Knee Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0F0ZZ	Alteration of Right Knee Region, Open Approach	PX	ICD-10-PCS
0Y0F37Z	Alteration of Right Knee Region with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0F3JZ	Alteration of Right Knee Region with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0F3KZ	Alteration of Right Knee Region with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0F3ZZ	Alteration of Right Knee Region, Percutaneous Approach	PX	ICD-10-PCS
0Y0F47Z	Alteration of Right Knee Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0F4JZ	Alteration of Right Knee Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0F4KZ	Alteration of Right Knee Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0F4ZZ	Alteration of Right Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0G07Z	Alteration of Left Knee Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0G0JZ	Alteration of Left Knee Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y0G0KZ	Alteration of Left Knee Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0G0ZZ	Alteration of Left Knee Region, Open Approach	PX	ICD-10-PCS
0Y0G37Z	Alteration of Left Knee Region with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Y0G3JZ	Alteration of Left Knee Region with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0G3KZ	Alteration of Left Knee Region with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0G3ZZ	Alteration of Left Knee Region, Percutaneous Approach	PX	ICD-10-PCS
0Y0G47Z	Alteration of Left Knee Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0G4JZ	Alteration of Left Knee Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0G4KZ	Alteration of Left Knee Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0G4ZZ	Alteration of Left Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0H07Z	Alteration of Right Lower Leg with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0H0JZ	Alteration of Right Lower Leg with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y0H0KZ	Alteration of Right Lower Leg with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0H0ZZ	Alteration of Right Lower Leg, Open Approach	PX	ICD-10-PCS
0Y0H37Z	Alteration of Right Lower Leg with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0H3JZ	Alteration of Right Lower Leg with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0H3KZ	Alteration of Right Lower Leg with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0H3ZZ	Alteration of Right Lower Leg, Percutaneous Approach	PX	ICD-10-PCS
0Y0H47Z	Alteration of Right Lower Leg with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0H4JZ	Alteration of Right Lower Leg with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0H4KZ	Alteration of Right Lower Leg with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0H4ZZ	Alteration of Right Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0J07Z	Alteration of Left Lower Leg with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0J0JZ	Alteration of Left Lower Leg with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y0J0KZ	Alteration of Left Lower Leg with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0J0ZZ	Alteration of Left Lower Leg, Open Approach	PX	ICD-10-PCS
0Y0J37Z	Alteration of Left Lower Leg with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0J3JZ	Alteration of Left Lower Leg with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0J3KZ	Alteration of Left Lower Leg with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0J3ZZ	Alteration of Left Lower Leg, Percutaneous Approach	PX	ICD-10-PCS
0Y0J47Z	Alteration of Left Lower Leg with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Y0J4JZ	Alteration of Left Lower Leg with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0J4KZ	Alteration of Left Lower Leg with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0J4ZZ	Alteration of Left Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0K07Z	Alteration of Right Ankle Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0K0JZ	Alteration of Right Ankle Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y0K0KZ	Alteration of Right Ankle Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0K0ZZ	Alteration of Right Ankle Region, Open Approach	PX	ICD-10-PCS
0Y0K37Z	Alteration of Right Ankle Region with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0K3JZ	Alteration of Right Ankle Region with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0K3KZ	Alteration of Right Ankle Region with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0K3ZZ	Alteration of Right Ankle Region, Percutaneous Approach	PX	ICD-10-PCS
0Y0K47Z	Alteration of Right Ankle Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0K4JZ	Alteration of Right Ankle Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0K4KZ	Alteration of Right Ankle Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0K4ZZ	Alteration of Right Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0L07Z	Alteration of Left Ankle Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0L0JZ	Alteration of Left Ankle Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0Y0L0KZ	Alteration of Left Ankle Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0Y0L0ZZ	Alteration of Left Ankle Region, Open Approach	PX	ICD-10-PCS
0Y0L37Z	Alteration of Left Ankle Region with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0L3JZ	Alteration of Left Ankle Region with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0L3KZ	Alteration of Left Ankle Region with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0Y0L3ZZ	Alteration of Left Ankle Region, Percutaneous Approach	PX	ICD-10-PCS
0Y0L47Z	Alteration of Left Ankle Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0L4JZ	Alteration of Left Ankle Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0L4KZ	Alteration of Left Ankle Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y0L4ZZ	Alteration of Left Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Y300ZZ	Control Bleeding in Right Buttock, Open Approach	PX	ICD-10-PCS
0Y303ZZ	Control Bleeding in Right Buttock, Percutaneous Approach	PX	ICD-10-PCS
0Y304ZZ	Control Bleeding in Right Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y310ZZ	Control Bleeding in Left Buttock, Open Approach	PX	ICD-10-PCS
0Y313ZZ	Control Bleeding in Left Buttock, Percutaneous Approach	PX	ICD-10-PCS
0Y314ZZ	Control Bleeding in Left Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y350ZZ	Control Bleeding in Right Inguinal Region, Open Approach	PX	ICD-10-PCS
0Y353ZZ	Control Bleeding in Right Inguinal Region, Percutaneous Approach	PX	ICD-10-PCS
0Y354ZZ	Control Bleeding in Right Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y360ZZ	Control Bleeding in Left Inguinal Region, Open Approach	PX	ICD-10-PCS
0Y363ZZ	Control Bleeding in Left Inguinal Region, Percutaneous Approach	PX	ICD-10-PCS
0Y364ZZ	Control Bleeding in Left Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y370ZZ	Control Bleeding in Right Femoral Region, Open Approach	PX	ICD-10-PCS
0Y373ZZ	Control Bleeding in Right Femoral Region, Percutaneous Approach	PX	ICD-10-PCS
0Y374ZZ	Control Bleeding in Right Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y380ZZ	Control Bleeding in Left Femoral Region, Open Approach	PX	ICD-10-PCS
0Y383ZZ	Control Bleeding in Left Femoral Region, Percutaneous Approach	PX	ICD-10-PCS
0Y384ZZ	Control Bleeding in Left Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y390ZZ	Control Bleeding in Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0Y393ZZ	Control Bleeding in Right Lower Extremity, Percutaneous Approach	PX	ICD-10-PCS
0Y394ZZ	Control Bleeding in Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y3B0ZZ	Control Bleeding in Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0Y3B3ZZ	Control Bleeding in Left Lower Extremity, Percutaneous Approach	PX	ICD-10-PCS
0Y3B4ZZ	Control Bleeding in Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y3C0ZZ	Control Bleeding in Right Upper Leg, Open Approach	PX	ICD-10-PCS
0Y3C3ZZ	Control Bleeding in Right Upper Leg, Percutaneous Approach	PX	ICD-10-PCS
0Y3C4ZZ	Control Bleeding in Right Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y3D0ZZ	Control Bleeding in Left Upper Leg, Open Approach	PX	ICD-10-PCS
0Y3D3ZZ	Control Bleeding in Left Upper Leg, Percutaneous Approach	PX	ICD-10-PCS
0Y3D4ZZ	Control Bleeding in Left Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y3F0ZZ	Control Bleeding in Right Knee Region, Open Approach	PX	ICD-10-PCS
0Y3F3ZZ	Control Bleeding in Right Knee Region, Percutaneous Approach	PX	ICD-10-PCS
0Y3F4ZZ	Control Bleeding in Right Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y3G0ZZ	Control Bleeding in Left Knee Region, Open Approach	PX	ICD-10-PCS
0Y3G3ZZ	Control Bleeding in Left Knee Region, Percutaneous Approach	PX	ICD-10-PCS
0Y3G4ZZ	Control Bleeding in Left Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y3H0ZZ	Control Bleeding in Right Lower Leg, Open Approach	PX	ICD-10-PCS
0Y3H3ZZ	Control Bleeding in Right Lower Leg, Percutaneous Approach	PX	ICD-10-PCS
0Y3H4ZZ	Control Bleeding in Right Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y3J0ZZ	Control Bleeding in Left Lower Leg, Open Approach	PX	ICD-10-PCS
0Y3J3ZZ	Control Bleeding in Left Lower Leg, Percutaneous Approach	PX	ICD-10-PCS
0Y3J4ZZ	Control Bleeding in Left Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y3K0ZZ	Control Bleeding in Right Ankle Region, Open Approach	PX	ICD-10-PCS
0Y3K3ZZ	Control Bleeding in Right Ankle Region, Percutaneous Approach	PX	ICD-10-PCS
0Y3K4ZZ	Control Bleeding in Right Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Y3L0ZZ	Control Bleeding in Left Ankle Region, Open Approach	PX	ICD-10-PCS
0Y3L3ZZ	Control Bleeding in Left Ankle Region, Percutaneous Approach	PX	ICD-10-PCS
0Y3L4ZZ	Control Bleeding in Left Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y3M0ZZ	Control Bleeding in Right Foot, Open Approach	PX	ICD-10-PCS
0Y3M3ZZ	Control Bleeding in Right Foot, Percutaneous Approach	PX	ICD-10-PCS
0Y3M4ZZ	Control Bleeding in Right Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y3N0ZZ	Control Bleeding in Left Foot, Open Approach	PX	ICD-10-PCS
0Y3N3ZZ	Control Bleeding in Left Foot, Percutaneous Approach	PX	ICD-10-PCS
0Y3N4ZZ	Control Bleeding in Left Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y620ZZ	Detachment at Right Hindquarter, Open Approach	PX	ICD-10-PCS
0Y630ZZ	Detachment at Left Hindquarter, Open Approach	PX	ICD-10-PCS
0Y640ZZ	Detachment at Bilateral Hindquarter, Open Approach	PX	ICD-10-PCS
0Y670ZZ	Detachment at Right Femoral Region, Open Approach	PX	ICD-10-PCS
0Y680ZZ	Detachment at Left Femoral Region, Open Approach	PX	ICD-10-PCS
0Y6C0Z1	Detachment at Right Upper Leg, High, Open Approach	PX	ICD-10-PCS
0Y6C0Z2	Detachment at Right Upper Leg, Mid, Open Approach	PX	ICD-10-PCS
0Y6C0Z3	Detachment at Right Upper Leg, Low, Open Approach	PX	ICD-10-PCS
0Y6D0Z1	Detachment at Left Upper Leg, High, Open Approach	PX	ICD-10-PCS
0Y6D0Z2	Detachment at Left Upper Leg, Mid, Open Approach	PX	ICD-10-PCS
0Y6D0Z3	Detachment at Left Upper Leg, Low, Open Approach	PX	ICD-10-PCS
0Y6F0ZZ	Detachment at Right Knee Region, Open Approach	PX	ICD-10-PCS
0Y6G0ZZ	Detachment at Left Knee Region, Open Approach	PX	ICD-10-PCS
0Y6H0Z1	Detachment at Right Lower Leg, High, Open Approach	PX	ICD-10-PCS
0Y6H0Z2	Detachment at Right Lower Leg, Mid, Open Approach	PX	ICD-10-PCS
0Y6H0Z3	Detachment at Right Lower Leg, Low, Open Approach	PX	ICD-10-PCS
0Y6J0Z1	Detachment at Left Lower Leg, High, Open Approach	PX	ICD-10-PCS
0Y6J0Z2	Detachment at Left Lower Leg, Mid, Open Approach	PX	ICD-10-PCS
0Y6J0Z3	Detachment at Left Lower Leg, Low, Open Approach	PX	ICD-10-PCS
0Y6M0Z0	Detachment at Right Foot, Complete, Open Approach	PX	ICD-10-PCS
0Y6M0Z4	Detachment at Right Foot, Complete 1st Ray, Open Approach	PX	ICD-10-PCS
0Y6M0Z5	Detachment at Right Foot, Complete 2nd Ray, Open Approach	PX	ICD-10-PCS
0Y6M0Z6	Detachment at Right Foot, Complete 3rd Ray, Open Approach	PX	ICD-10-PCS
0Y6M0Z7	Detachment at Right Foot, Complete 4th Ray, Open Approach	PX	ICD-10-PCS
0Y6M0Z8	Detachment at Right Foot, Complete 5th Ray, Open Approach	PX	ICD-10-PCS
0Y6M0Z9	Detachment at Right Foot, Partial 1st Ray, Open Approach	PX	ICD-10-PCS
0Y6M0ZB	Detachment at Right Foot, Partial 2nd Ray, Open Approach	PX	ICD-10-PCS
0Y6M0ZC	Detachment at Right Foot, Partial 3rd Ray, Open Approach	PX	ICD-10-PCS
0Y6M0ZD	Detachment at Right Foot, Partial 4th Ray, Open Approach	PX	ICD-10-PCS
0Y6M0ZF	Detachment at Right Foot, Partial 5th Ray, Open Approach	PX	ICD-10-PCS
0Y6N0Z0	Detachment at Left Foot, Complete, Open Approach	PX	ICD-10-PCS
0Y6N0Z4	Detachment at Left Foot, Complete 1st Ray, Open Approach	PX	ICD-10-PCS
0Y6N0Z5	Detachment at Left Foot, Complete 2nd Ray, Open Approach	PX	ICD-10-PCS
0Y6N0Z6	Detachment at Left Foot, Complete 3rd Ray, Open Approach	PX	ICD-10-PCS
0Y6N0Z7	Detachment at Left Foot, Complete 4th Ray, Open Approach	PX	ICD-10-PCS
0Y6N0Z8	Detachment at Left Foot, Complete 5th Ray, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Y6N0Z9	Detachment at Left Foot, Partial 1st Ray, Open Approach	PX	ICD-10-PCS
0Y6N0ZB	Detachment at Left Foot, Partial 2nd Ray, Open Approach	PX	ICD-10-PCS
0Y6N0ZC	Detachment at Left Foot, Partial 3rd Ray, Open Approach	PX	ICD-10-PCS
0Y6N0ZD	Detachment at Left Foot, Partial 4th Ray, Open Approach	PX	ICD-10-PCS
0Y6N0ZF	Detachment at Left Foot, Partial 5th Ray, Open Approach	PX	ICD-10-PCS
0Y6P0Z0	Detachment at Right 1st Toe, Complete, Open Approach	PX	ICD-10-PCS
0Y6P0Z1	Detachment at Right 1st Toe, High, Open Approach	PX	ICD-10-PCS
0Y6P0Z2	Detachment at Right 1st Toe, Mid, Open Approach	PX	ICD-10-PCS
0Y6P0Z3	Detachment at Right 1st Toe, Low, Open Approach	PX	ICD-10-PCS
0Y6Q0Z0	Detachment at Left 1st Toe, Complete, Open Approach	PX	ICD-10-PCS
0Y6Q0Z1	Detachment at Left 1st Toe, High, Open Approach	PX	ICD-10-PCS
0Y6Q0Z2	Detachment at Left 1st Toe, Mid, Open Approach	PX	ICD-10-PCS
0Y6Q0Z3	Detachment at Left 1st Toe, Low, Open Approach	PX	ICD-10-PCS
0Y6R0Z0	Detachment at Right 2nd Toe, Complete, Open Approach	PX	ICD-10-PCS
0Y6R0Z1	Detachment at Right 2nd Toe, High, Open Approach	PX	ICD-10-PCS
0Y6R0Z2	Detachment at Right 2nd Toe, Mid, Open Approach	PX	ICD-10-PCS
0Y6R0Z3	Detachment at Right 2nd Toe, Low, Open Approach	PX	ICD-10-PCS
0Y6S0Z0	Detachment at Left 2nd Toe, Complete, Open Approach	PX	ICD-10-PCS
0Y6S0Z1	Detachment at Left 2nd Toe, High, Open Approach	PX	ICD-10-PCS
0Y6S0Z2	Detachment at Left 2nd Toe, Mid, Open Approach	PX	ICD-10-PCS
0Y6S0Z3	Detachment at Left 2nd Toe, Low, Open Approach	PX	ICD-10-PCS
0Y6T0Z0	Detachment at Right 3rd Toe, Complete, Open Approach	PX	ICD-10-PCS
0Y6T0Z1	Detachment at Right 3rd Toe, High, Open Approach	PX	ICD-10-PCS
0Y6T0Z2	Detachment at Right 3rd Toe, Mid, Open Approach	PX	ICD-10-PCS
0Y6T0Z3	Detachment at Right 3rd Toe, Low, Open Approach	PX	ICD-10-PCS
0Y6U0Z0	Detachment at Left 3rd Toe, Complete, Open Approach	PX	ICD-10-PCS
0Y6U0Z1	Detachment at Left 3rd Toe, High, Open Approach	PX	ICD-10-PCS
0Y6U0Z2	Detachment at Left 3rd Toe, Mid, Open Approach	PX	ICD-10-PCS
0Y6U0Z3	Detachment at Left 3rd Toe, Low, Open Approach	PX	ICD-10-PCS
0Y6V0Z0	Detachment at Right 4th Toe, Complete, Open Approach	PX	ICD-10-PCS
0Y6V0Z1	Detachment at Right 4th Toe, High, Open Approach	PX	ICD-10-PCS
0Y6V0Z2	Detachment at Right 4th Toe, Mid, Open Approach	PX	ICD-10-PCS
0Y6V0Z3	Detachment at Right 4th Toe, Low, Open Approach	PX	ICD-10-PCS
0Y6W0Z0	Detachment at Left 4th Toe, Complete, Open Approach	PX	ICD-10-PCS
0Y6W0Z1	Detachment at Left 4th Toe, High, Open Approach	PX	ICD-10-PCS
0Y6W0Z2	Detachment at Left 4th Toe, Mid, Open Approach	PX	ICD-10-PCS
0Y6W0Z3	Detachment at Left 4th Toe, Low, Open Approach	PX	ICD-10-PCS
0Y6X0Z0	Detachment at Right 5th Toe, Complete, Open Approach	PX	ICD-10-PCS
0Y6X0Z1	Detachment at Right 5th Toe, High, Open Approach	PX	ICD-10-PCS
0Y6X0Z2	Detachment at Right 5th Toe, Mid, Open Approach	PX	ICD-10-PCS
0Y6X0Z3	Detachment at Right 5th Toe, Low, Open Approach	PX	ICD-10-PCS
0Y6Y0Z0	Detachment at Left 5th Toe, Complete, Open Approach	PX	ICD-10-PCS
0Y6Y0Z1	Detachment at Left 5th Toe, High, Open Approach	PX	ICD-10-PCS
0Y6Y0Z2	Detachment at Left 5th Toe, Mid, Open Approach	PX	ICD-10-PCS
0Y6Y0Z3	Detachment at Left 5th Toe, Low, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Y9040Z	Drainage of Right Buttock with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y904ZZ	Drainage of Right Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9140Z	Drainage of Left Buttock with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y914ZZ	Drainage of Left Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9500Z	Drainage of Right Inguinal Region with Drainage Device, Open Approach	PX	ICD-10-PCS
0Y950ZZ	Drainage of Right Inguinal Region, Open Approach	PX	ICD-10-PCS
0Y9540Z	Drainage of Right Inguinal Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y954ZZ	Drainage of Right Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9600Z	Drainage of Left Inguinal Region with Drainage Device, Open Approach	PX	ICD-10-PCS
0Y960ZZ	Drainage of Left Inguinal Region, Open Approach	PX	ICD-10-PCS
0Y9640Z	Drainage of Left Inguinal Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y964ZZ	Drainage of Left Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9740Z	Drainage of Right Femoral Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y974ZZ	Drainage of Right Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9840Z	Drainage of Left Femoral Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y984ZZ	Drainage of Left Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9940Z	Drainage of Right Lower Extremity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y994ZZ	Drainage of Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9B40Z	Drainage of Left Lower Extremity with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9B4ZZ	Drainage of Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9C40Z	Drainage of Right Upper Leg with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9C4ZZ	Drainage of Right Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9D40Z	Drainage of Left Upper Leg with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9D4ZZ	Drainage of Left Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9F40Z	Drainage of Right Knee Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9F4ZZ	Drainage of Right Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9G40Z	Drainage of Left Knee Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9G4ZZ	Drainage of Left Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9H40Z	Drainage of Right Lower Leg with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9H4ZZ	Drainage of Right Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9J40Z	Drainage of Left Lower Leg with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0Y9J4ZZ	Drainage of Left Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9K40Z	Drainage of Right Ankle Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9K4ZZ	Drainage of Right Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9L40Z	Drainage of Left Ankle Region with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9L4ZZ	Drainage of Left Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9M40Z	Drainage of Right Foot with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9M4ZZ	Drainage of Right Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9N40Z	Drainage of Left Foot with Drainage Device, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0Y9N4ZZ	Drainage of Left Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YB00ZZ	Excision of Right Buttock, Open Approach	PX	ICD-10-PCS
0YB03ZZ	Excision of Right Buttock, Percutaneous Approach	PX	ICD-10-PCS
0YB04ZZ	Excision of Right Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YB10ZZ	Excision of Left Buttock, Open Approach	PX	ICD-10-PCS
0YB13ZZ	Excision of Left Buttock, Percutaneous Approach	PX	ICD-10-PCS
0YB14ZZ	Excision of Left Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YB50ZZ	Excision of Right Inguinal Region, Open Approach	PX	ICD-10-PCS
0YB53ZZ	Excision of Right Inguinal Region, Percutaneous Approach	PX	ICD-10-PCS
0YB54ZZ	Excision of Right Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YB60ZZ	Excision of Left Inguinal Region, Open Approach	PX	ICD-10-PCS
0YB63ZZ	Excision of Left Inguinal Region, Percutaneous Approach	PX	ICD-10-PCS
0YB64ZZ	Excision of Left Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YB70ZZ	Excision of Right Femoral Region, Open Approach	PX	ICD-10-PCS
0YB73ZZ	Excision of Right Femoral Region, Percutaneous Approach	PX	ICD-10-PCS
0YB74ZZ	Excision of Right Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YB80ZZ	Excision of Left Femoral Region, Open Approach	PX	ICD-10-PCS
0YB83ZZ	Excision of Left Femoral Region, Percutaneous Approach	PX	ICD-10-PCS
0YB84ZZ	Excision of Left Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YB90ZZ	Excision of Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YB93ZZ	Excision of Right Lower Extremity, Percutaneous Approach	PX	ICD-10-PCS
0YB94ZZ	Excision of Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YBB0ZZ	Excision of Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YBB3ZZ	Excision of Left Lower Extremity, Percutaneous Approach	PX	ICD-10-PCS
0YBB4ZZ	Excision of Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YBC0ZZ	Excision of Right Upper Leg, Open Approach	PX	ICD-10-PCS
0YBC3ZZ	Excision of Right Upper Leg, Percutaneous Approach	PX	ICD-10-PCS
0YBC4ZZ	Excision of Right Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YBD0ZZ	Excision of Left Upper Leg, Open Approach	PX	ICD-10-PCS
0YBD3ZZ	Excision of Left Upper Leg, Percutaneous Approach	PX	ICD-10-PCS
0YBD4ZZ	Excision of Left Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YBF0ZZ	Excision of Right Knee Region, Open Approach	PX	ICD-10-PCS
0YBF3ZZ	Excision of Right Knee Region, Percutaneous Approach	PX	ICD-10-PCS
0YBF4ZZ	Excision of Right Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YBG0ZZ	Excision of Left Knee Region, Open Approach	PX	ICD-10-PCS
0YBG3ZZ	Excision of Left Knee Region, Percutaneous Approach	PX	ICD-10-PCS
0YBG4ZZ	Excision of Left Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YBH0ZZ	Excision of Right Lower Leg, Open Approach	PX	ICD-10-PCS
0YBH3ZZ	Excision of Right Lower Leg, Percutaneous Approach	PX	ICD-10-PCS
0YBH4ZZ	Excision of Right Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YBJ0ZZ	Excision of Left Lower Leg, Open Approach	PX	ICD-10-PCS
0YBJ3ZZ	Excision of Left Lower Leg, Percutaneous Approach	PX	ICD-10-PCS
0YBJ4ZZ	Excision of Left Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YBK0ZZ	Excision of Right Ankle Region, Open Approach	PX	ICD-10-PCS
0YBK3ZZ	Excision of Right Ankle Region, Percutaneous Approach	PX	ICD-10-PCS
0YBK4ZZ	Excision of Right Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YBL0ZZ	Excision of Left Ankle Region, Open Approach	PX	ICD-10-PCS
0YBL3ZZ	Excision of Left Ankle Region, Percutaneous Approach	PX	ICD-10-PCS
0YBL4ZZ	Excision of Left Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YBM0ZZ	Excision of Right Foot, Open Approach	PX	ICD-10-PCS
0YBM3ZZ	Excision of Right Foot, Percutaneous Approach	PX	ICD-10-PCS
0YBM4ZZ	Excision of Right Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YBN0ZZ	Excision of Left Foot, Open Approach	PX	ICD-10-PCS
0YBN3ZZ	Excision of Left Foot, Percutaneous Approach	PX	ICD-10-PCS
0YBN4ZZ	Excision of Left Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH001Z	Insertion of Radioactive Element into Right Buttock, Open Approach	PX	ICD-10-PCS
0YH003Z	Insertion of Infusion Device into Right Buttock, Open Approach	PX	ICD-10-PCS
0YH00YZ	Insertion of Other Device into Right Buttock, Open Approach	PX	ICD-10-PCS
0YH041Z	Insertion of Radioactive Element into Right Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH043Z	Insertion of Infusion Device into Right Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH04YZ	Insertion of Other Device into Right Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH101Z	Insertion of Radioactive Element into Left Buttock, Open Approach	PX	ICD-10-PCS
0YH103Z	Insertion of Infusion Device into Left Buttock, Open Approach	PX	ICD-10-PCS
0YH10YZ	Insertion of Other Device into Left Buttock, Open Approach	PX	ICD-10-PCS
0YH141Z	Insertion of Radioactive Element into Left Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH143Z	Insertion of Infusion Device into Left Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH14YZ	Insertion of Other Device into Left Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH501Z	Insertion of Radioactive Element into Right Inguinal Region, Open Approach	PX	ICD-10-PCS
0YH503Z	Insertion of Infusion Device into Right Inguinal Region, Open Approach	PX	ICD-10-PCS
0YH50YZ	Insertion of Other Device into Right Inguinal Region, Open Approach	PX	ICD-10-PCS
0YH541Z	Insertion of Radioactive Element into Right Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH543Z	Insertion of Infusion Device into Right Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YH54YZ	Insertion of Other Device into Right Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH601Z	Insertion of Radioactive Element into Left Inguinal Region, Open Approach	PX	ICD-10-PCS
0YH603Z	Insertion of Infusion Device into Left Inguinal Region, Open Approach	PX	ICD-10-PCS
0YH60YZ	Insertion of Other Device into Left Inguinal Region, Open Approach	PX	ICD-10-PCS
0YH641Z	Insertion of Radioactive Element into Left Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH643Z	Insertion of Infusion Device into Left Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH64YZ	Insertion of Other Device into Left Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH701Z	Insertion of Radioactive Element into Right Femoral Region, Open Approach	PX	ICD-10-PCS
0YH703Z	Insertion of Infusion Device into Right Femoral Region, Open Approach	PX	ICD-10-PCS
0YH70YZ	Insertion of Other Device into Right Femoral Region, Open Approach	PX	ICD-10-PCS
0YH741Z	Insertion of Radioactive Element into Right Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH743Z	Insertion of Infusion Device into Right Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH74YZ	Insertion of Other Device into Right Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH801Z	Insertion of Radioactive Element into Left Femoral Region, Open Approach	PX	ICD-10-PCS
0YH803Z	Insertion of Infusion Device into Left Femoral Region, Open Approach	PX	ICD-10-PCS
0YH80YZ	Insertion of Other Device into Left Femoral Region, Open Approach	PX	ICD-10-PCS
0YH841Z	Insertion of Radioactive Element into Left Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH843Z	Insertion of Infusion Device into Left Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH84YZ	Insertion of Other Device into Left Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH901Z	Insertion of Radioactive Element into Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YH903Z	Insertion of Infusion Device into Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YH90YZ	Insertion of Other Device into Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YH941Z	Insertion of Radioactive Element into Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH943Z	Insertion of Infusion Device into Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YH94YZ	Insertion of Other Device into Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHB01Z	Insertion of Radioactive Element into Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YHB03Z	Insertion of Infusion Device into Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YHB0YZ	Insertion of Other Device into Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YHB41Z	Insertion of Radioactive Element into Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHB43Z	Insertion of Infusion Device into Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YHB4YZ	Insertion of Other Device into Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHC01Z	Insertion of Radioactive Element into Right Upper Leg, Open Approach	PX	ICD-10-PCS
0YHC03Z	Insertion of Infusion Device into Right Upper Leg, Open Approach	PX	ICD-10-PCS
0YHC0YZ	Insertion of Other Device into Right Upper Leg, Open Approach	PX	ICD-10-PCS
0YHC41Z	Insertion of Radioactive Element into Right Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHC43Z	Insertion of Infusion Device into Right Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHC4YZ	Insertion of Other Device into Right Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHD01Z	Insertion of Radioactive Element into Left Upper Leg, Open Approach	PX	ICD-10-PCS
0YHD03Z	Insertion of Infusion Device into Left Upper Leg, Open Approach	PX	ICD-10-PCS
0YHD0YZ	Insertion of Other Device into Left Upper Leg, Open Approach	PX	ICD-10-PCS
0YHD41Z	Insertion of Radioactive Element into Left Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHD43Z	Insertion of Infusion Device into Left Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHD4YZ	Insertion of Other Device into Left Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHF01Z	Insertion of Radioactive Element into Right Knee Region, Open Approach	PX	ICD-10-PCS
0YHF03Z	Insertion of Infusion Device into Right Knee Region, Open Approach	PX	ICD-10-PCS
0YHF0YZ	Insertion of Other Device into Right Knee Region, Open Approach	PX	ICD-10-PCS
0YHF41Z	Insertion of Radioactive Element into Right Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHF43Z	Insertion of Infusion Device into Right Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHF4YZ	Insertion of Other Device into Right Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHG01Z	Insertion of Radioactive Element into Left Knee Region, Open Approach	PX	ICD-10-PCS
0YHG03Z	Insertion of Infusion Device into Left Knee Region, Open Approach	PX	ICD-10-PCS
0YHG0YZ	Insertion of Other Device into Left Knee Region, Open Approach	PX	ICD-10-PCS
0YHG41Z	Insertion of Radioactive Element into Left Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHG43Z	Insertion of Infusion Device into Left Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHG4YZ	Insertion of Other Device into Left Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHH01Z	Insertion of Radioactive Element into Right Lower Leg, Open Approach	PX	ICD-10-PCS
0YHH03Z	Insertion of Infusion Device into Right Lower Leg, Open Approach	PX	ICD-10-PCS
0YHH0YZ	Insertion of Other Device into Right Lower Leg, Open Approach	PX	ICD-10-PCS
0YHH41Z	Insertion of Radioactive Element into Right Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHH43Z	Insertion of Infusion Device into Right Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YHH4YZ	Insertion of Other Device into Right Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHJ01Z	Insertion of Radioactive Element into Left Lower Leg, Open Approach	PX	ICD-10-PCS
0YHJ03Z	Insertion of Infusion Device into Left Lower Leg, Open Approach	PX	ICD-10-PCS
0YHJ0YZ	Insertion of Other Device into Left Lower Leg, Open Approach	PX	ICD-10-PCS
0YHJ41Z	Insertion of Radioactive Element into Left Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHJ43Z	Insertion of Infusion Device into Left Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHJ4YZ	Insertion of Other Device into Left Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHK01Z	Insertion of Radioactive Element into Right Ankle Region, Open Approach	PX	ICD-10-PCS
0YHK03Z	Insertion of Infusion Device into Right Ankle Region, Open Approach	PX	ICD-10-PCS
0YHK0YZ	Insertion of Other Device into Right Ankle Region, Open Approach	PX	ICD-10-PCS
0YHK41Z	Insertion of Radioactive Element into Right Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHK43Z	Insertion of Infusion Device into Right Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHK4YZ	Insertion of Other Device into Right Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHL01Z	Insertion of Radioactive Element into Left Ankle Region, Open Approach	PX	ICD-10-PCS
0YHL03Z	Insertion of Infusion Device into Left Ankle Region, Open Approach	PX	ICD-10-PCS
0YHL0YZ	Insertion of Other Device into Left Ankle Region, Open Approach	PX	ICD-10-PCS
0YHL41Z	Insertion of Radioactive Element into Left Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHL43Z	Insertion of Infusion Device into Left Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHL4YZ	Insertion of Other Device into Left Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHM01Z	Insertion of Radioactive Element into Right Foot, Open Approach	PX	ICD-10-PCS
0YHM03Z	Insertion of Infusion Device into Right Foot, Open Approach	PX	ICD-10-PCS
0YHM0YZ	Insertion of Other Device into Right Foot, Open Approach	PX	ICD-10-PCS
0YHM41Z	Insertion of Radioactive Element into Right Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHM43Z	Insertion of Infusion Device into Right Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHM4YZ	Insertion of Other Device into Right Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHN01Z	Insertion of Radioactive Element into Left Foot, Open Approach	PX	ICD-10-PCS
0YHN03Z	Insertion of Infusion Device into Left Foot, Open Approach	PX	ICD-10-PCS
0YHN0YZ	Insertion of Other Device into Left Foot, Open Approach	PX	ICD-10-PCS
0YHN41Z	Insertion of Radioactive Element into Left Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHN43Z	Insertion of Infusion Device into Left Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YHN4YZ	Insertion of Other Device into Left Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YM00ZZ	Reattachment of Right Buttock, Open Approach	PX	ICD-10-PCS
0YM10ZZ	Reattachment of Left Buttock, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YM20ZZ	Reattachment of Right Hindquarter, Open Approach	PX	ICD-10-PCS
0YM30ZZ	Reattachment of Left Hindquarter, Open Approach	PX	ICD-10-PCS
0YM40ZZ	Reattachment of Bilateral Hindquarter, Open Approach	PX	ICD-10-PCS
0YM50ZZ	Reattachment of Right Inguinal Region, Open Approach	PX	ICD-10-PCS
0YM60ZZ	Reattachment of Left Inguinal Region, Open Approach	PX	ICD-10-PCS
0YM70ZZ	Reattachment of Right Femoral Region, Open Approach	PX	ICD-10-PCS
0YM80ZZ	Reattachment of Left Femoral Region, Open Approach	PX	ICD-10-PCS
0YM90ZZ	Reattachment of Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YMB0ZZ	Reattachment of Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YMC0ZZ	Reattachment of Right Upper Leg, Open Approach	PX	ICD-10-PCS
0YMD0ZZ	Reattachment of Left Upper Leg, Open Approach	PX	ICD-10-PCS
0YMF0ZZ	Reattachment of Right Knee Region, Open Approach	PX	ICD-10-PCS
0YMG0ZZ	Reattachment of Left Knee Region, Open Approach	PX	ICD-10-PCS
0YMH0ZZ	Reattachment of Right Lower Leg, Open Approach	PX	ICD-10-PCS
0YMJ0ZZ	Reattachment of Left Lower Leg, Open Approach	PX	ICD-10-PCS
0YMK0ZZ	Reattachment of Right Ankle Region, Open Approach	PX	ICD-10-PCS
0YML0ZZ	Reattachment of Left Ankle Region, Open Approach	PX	ICD-10-PCS
0YMM0ZZ	Reattachment of Right Foot, Open Approach	PX	ICD-10-PCS
0YMN0ZZ	Reattachment of Left Foot, Open Approach	PX	ICD-10-PCS
0YMP0ZZ	Reattachment of Right 1st Toe, Open Approach	PX	ICD-10-PCS
0YMQ0ZZ	Reattachment of Left 1st Toe, Open Approach	PX	ICD-10-PCS
0YMR0ZZ	Reattachment of Right 2nd Toe, Open Approach	PX	ICD-10-PCS
0YMS0ZZ	Reattachment of Left 2nd Toe, Open Approach	PX	ICD-10-PCS
0YMT0ZZ	Reattachment of Right 3rd Toe, Open Approach	PX	ICD-10-PCS
0YMU0ZZ	Reattachment of Left 3rd Toe, Open Approach	PX	ICD-10-PCS
0YMV0ZZ	Reattachment of Right 4th Toe, Open Approach	PX	ICD-10-PCS
0YMW0ZZ	Reattachment of Left 4th Toe, Open Approach	PX	ICD-10-PCS
0YMX0ZZ	Reattachment of Right 5th Toe, Open Approach	PX	ICD-10-PCS
0YMY0ZZ	Reattachment of Left 5th Toe, Open Approach	PX	ICD-10-PCS
0YP901Z	Removal of Radioactive Element from Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YP907Z	Removal of Autologous Tissue Substitute from Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YP90JZ	Removal of Synthetic Substitute from Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YP90KZ	Removal of Nonautologous Tissue Substitute from Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YP940Z	Removal of Drainage Device from Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YP941Z	Removal of Radioactive Element from Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YP943Z	Removal of Infusion Device from Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YP947Z	Removal of Autologous Tissue Substitute from Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YP94JZ	Removal of Synthetic Substitute from Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YP94KZ	Removal of Nonautologous Tissue Substitute from Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YP94YZ	Removal of Other Device from Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YPB01Z	Removal of Radioactive Element from Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YPB07Z	Removal of Autologous Tissue Substitute from Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YPB0JZ	Removal of Synthetic Substitute from Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YPB0KZ	Removal of Nonautologous Tissue Substitute from Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YPB40Z	Removal of Drainage Device from Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YPB41Z	Removal of Radioactive Element from Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YPB43Z	Removal of Infusion Device from Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YPB47Z	Removal of Autologous Tissue Substitute from Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YPB4JZ	Removal of Synthetic Substitute from Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YPB4KZ	Removal of Nonautologous Tissue Substitute from Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YPB4YZ	Removal of Other Device from Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQ00ZZ	Repair Right Buttock, Open Approach	PX	ICD-10-PCS
0YQ03ZZ	Repair Right Buttock, Percutaneous Approach	PX	ICD-10-PCS
0YQ04ZZ	Repair Right Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQ0XZZ	Repair Right Buttock, External Approach	PX	ICD-10-PCS
0YQ10ZZ	Repair Left Buttock, Open Approach	PX	ICD-10-PCS
0YQ13ZZ	Repair Left Buttock, Percutaneous Approach	PX	ICD-10-PCS
0YQ14ZZ	Repair Left Buttock, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQ1XZZ	Repair Left Buttock, External Approach	PX	ICD-10-PCS
0YQ50ZZ	Repair Right Inguinal Region, Open Approach	PX	ICD-10-PCS
0YQ53ZZ	Repair Right Inguinal Region, Percutaneous Approach	PX	ICD-10-PCS
0YQ54ZZ	Repair Right Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQ60ZZ	Repair Left Inguinal Region, Open Approach	PX	ICD-10-PCS
0YQ63ZZ	Repair Left Inguinal Region, Percutaneous Approach	PX	ICD-10-PCS
0YQ64ZZ	Repair Left Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQ70ZZ	Repair Right Femoral Region, Open Approach	PX	ICD-10-PCS
0YQ73ZZ	Repair Right Femoral Region, Percutaneous Approach	PX	ICD-10-PCS
0YQ74ZZ	Repair Right Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQ80ZZ	Repair Left Femoral Region, Open Approach	PX	ICD-10-PCS
0YQ83ZZ	Repair Left Femoral Region, Percutaneous Approach	PX	ICD-10-PCS
0YQ84ZZ	Repair Left Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQ90ZZ	Repair Right Lower Extremity, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YQ93ZZ	Repair Right Lower Extremity, Percutaneous Approach	PX	ICD-10-PCS
0YQ94ZZ	Repair Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQ9XZZ	Repair Right Lower Extremity, External Approach	PX	ICD-10-PCS
0YQA0ZZ	Repair Bilateral Inguinal Region, Open Approach	PX	ICD-10-PCS
0YQA3ZZ	Repair Bilateral Inguinal Region, Percutaneous Approach	PX	ICD-10-PCS
0YQA4ZZ	Repair Bilateral Inguinal Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQB0ZZ	Repair Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YQB3ZZ	Repair Left Lower Extremity, Percutaneous Approach	PX	ICD-10-PCS
0YQB4ZZ	Repair Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQBXZZ	Repair Left Lower Extremity, External Approach	PX	ICD-10-PCS
0YQC0ZZ	Repair Right Upper Leg, Open Approach	PX	ICD-10-PCS
0YQC3ZZ	Repair Right Upper Leg, Percutaneous Approach	PX	ICD-10-PCS
0YQC4ZZ	Repair Right Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQCXZZ	Repair Right Upper Leg, External Approach	PX	ICD-10-PCS
0YQD0ZZ	Repair Left Upper Leg, Open Approach	PX	ICD-10-PCS
0YQD3ZZ	Repair Left Upper Leg, Percutaneous Approach	PX	ICD-10-PCS
0YQD4ZZ	Repair Left Upper Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQDXZZ	Repair Left Upper Leg, External Approach	PX	ICD-10-PCS
0YQE0ZZ	Repair Bilateral Femoral Region, Open Approach	PX	ICD-10-PCS
0YQE3ZZ	Repair Bilateral Femoral Region, Percutaneous Approach	PX	ICD-10-PCS
0YQE4ZZ	Repair Bilateral Femoral Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQF0ZZ	Repair Right Knee Region, Open Approach	PX	ICD-10-PCS
0YQF3ZZ	Repair Right Knee Region, Percutaneous Approach	PX	ICD-10-PCS
0YQF4ZZ	Repair Right Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQG0ZZ	Repair Left Knee Region, Open Approach	PX	ICD-10-PCS
0YQG3ZZ	Repair Left Knee Region, Percutaneous Approach	PX	ICD-10-PCS
0YQG4ZZ	Repair Left Knee Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQH0ZZ	Repair Right Lower Leg, Open Approach	PX	ICD-10-PCS
0YQH3ZZ	Repair Right Lower Leg, Percutaneous Approach	PX	ICD-10-PCS
0YQH4ZZ	Repair Right Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQHXZZ	Repair Right Lower Leg, External Approach	PX	ICD-10-PCS
0YQJ0ZZ	Repair Left Lower Leg, Open Approach	PX	ICD-10-PCS
0YQJ3ZZ	Repair Left Lower Leg, Percutaneous Approach	PX	ICD-10-PCS
0YQJ4ZZ	Repair Left Lower Leg, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQJXZZ	Repair Left Lower Leg, External Approach	PX	ICD-10-PCS
0YQK0ZZ	Repair Right Ankle Region, Open Approach	PX	ICD-10-PCS
0YQK3ZZ	Repair Right Ankle Region, Percutaneous Approach	PX	ICD-10-PCS
0YQK4ZZ	Repair Right Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQL0ZZ	Repair Left Ankle Region, Open Approach	PX	ICD-10-PCS
0YQL3ZZ	Repair Left Ankle Region, Percutaneous Approach	PX	ICD-10-PCS
0YQL4ZZ	Repair Left Ankle Region, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQM0ZZ	Repair Right Foot, Open Approach	PX	ICD-10-PCS
0YQM3ZZ	Repair Right Foot, Percutaneous Approach	PX	ICD-10-PCS
0YQM4ZZ	Repair Right Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQMXZZ	Repair Right Foot, External Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YQN0ZZ	Repair Left Foot, Open Approach	PX	ICD-10-PCS
0YQN3ZZ	Repair Left Foot, Percutaneous Approach	PX	ICD-10-PCS
0YQN4ZZ	Repair Left Foot, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQNXZZ	Repair Left Foot, External Approach	PX	ICD-10-PCS
0YQP0ZZ	Repair Right 1st Toe, Open Approach	PX	ICD-10-PCS
0YQP3ZZ	Repair Right 1st Toe, Percutaneous Approach	PX	ICD-10-PCS
0YQP4ZZ	Repair Right 1st Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQPXZZ	Repair Right 1st Toe, External Approach	PX	ICD-10-PCS
0YQQ0ZZ	Repair Left 1st Toe, Open Approach	PX	ICD-10-PCS
0YQQ3ZZ	Repair Left 1st Toe, Percutaneous Approach	PX	ICD-10-PCS
0YQQ4ZZ	Repair Left 1st Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQQXZZ	Repair Left 1st Toe, External Approach	PX	ICD-10-PCS
0YQR0ZZ	Repair Right 2nd Toe, Open Approach	PX	ICD-10-PCS
0YQR3ZZ	Repair Right 2nd Toe, Percutaneous Approach	PX	ICD-10-PCS
0YQR4ZZ	Repair Right 2nd Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQRXZZ	Repair Right 2nd Toe, External Approach	PX	ICD-10-PCS
0YQS0ZZ	Repair Left 2nd Toe, Open Approach	PX	ICD-10-PCS
0YQS3ZZ	Repair Left 2nd Toe, Percutaneous Approach	PX	ICD-10-PCS
0YQS4ZZ	Repair Left 2nd Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQSXZZ	Repair Left 2nd Toe, External Approach	PX	ICD-10-PCS
0YQT0ZZ	Repair Right 3rd Toe, Open Approach	PX	ICD-10-PCS
0YQT3ZZ	Repair Right 3rd Toe, Percutaneous Approach	PX	ICD-10-PCS
0YQT4ZZ	Repair Right 3rd Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQTXZZ	Repair Right 3rd Toe, External Approach	PX	ICD-10-PCS
0YQU0ZZ	Repair Left 3rd Toe, Open Approach	PX	ICD-10-PCS
0YQU3ZZ	Repair Left 3rd Toe, Percutaneous Approach	PX	ICD-10-PCS
0YQU4ZZ	Repair Left 3rd Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQUXZZ	Repair Left 3rd Toe, External Approach	PX	ICD-10-PCS
0YQV0ZZ	Repair Right 4th Toe, Open Approach	PX	ICD-10-PCS
0YQV3ZZ	Repair Right 4th Toe, Percutaneous Approach	PX	ICD-10-PCS
0YQV4ZZ	Repair Right 4th Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQVXZZ	Repair Right 4th Toe, External Approach	PX	ICD-10-PCS
0YQW0ZZ	Repair Left 4th Toe, Open Approach	PX	ICD-10-PCS
0YQW3ZZ	Repair Left 4th Toe, Percutaneous Approach	PX	ICD-10-PCS
0YQW4ZZ	Repair Left 4th Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQWXZZ	Repair Left 4th Toe, External Approach	PX	ICD-10-PCS
0YQX0ZZ	Repair Right 5th Toe, Open Approach	PX	ICD-10-PCS
0YQX3ZZ	Repair Right 5th Toe, Percutaneous Approach	PX	ICD-10-PCS
0YQX4ZZ	Repair Right 5th Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQXXZZ	Repair Right 5th Toe, External Approach	PX	ICD-10-PCS
0YQY0ZZ	Repair Left 5th Toe, Open Approach	PX	ICD-10-PCS
0YQY3ZZ	Repair Left 5th Toe, Percutaneous Approach	PX	ICD-10-PCS
0YQY4ZZ	Repair Left 5th Toe, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YQYXZZ	Repair Left 5th Toe, External Approach	PX	ICD-10-PCS
0YU007Z	Supplement Right Buttock with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YU00JZ	Supplement Right Buttock with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YU00KZ	Supplement Right Buttock with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU047Z	Supplement Right Buttock with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU04JZ	Supplement Right Buttock with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU04KZ	Supplement Right Buttock with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU107Z	Supplement Left Buttock with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU10JZ	Supplement Left Buttock with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YU10KZ	Supplement Left Buttock with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU147Z	Supplement Left Buttock with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU14JZ	Supplement Left Buttock with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU14KZ	Supplement Left Buttock with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU507Z	Supplement Right Inguinal Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU50JZ	Supplement Right Inguinal Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YU50KZ	Supplement Right Inguinal Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU547Z	Supplement Right Inguinal Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU54JZ	Supplement Right Inguinal Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU54KZ	Supplement Right Inguinal Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU607Z	Supplement Left Inguinal Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU60JZ	Supplement Left Inguinal Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YU60KZ	Supplement Left Inguinal Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU647Z	Supplement Left Inguinal Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU64JZ	Supplement Left Inguinal Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU64KZ	Supplement Left Inguinal Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU707Z	Supplement Right Femoral Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU70JZ	Supplement Right Femoral Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YU70KZ	Supplement Right Femoral Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YU747Z	Supplement Right Femoral Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU74JZ	Supplement Right Femoral Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU74KZ	Supplement Right Femoral Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU807Z	Supplement Left Femoral Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU80JZ	Supplement Left Femoral Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YU80KZ	Supplement Left Femoral Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU847Z	Supplement Left Femoral Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU84JZ	Supplement Left Femoral Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU84KZ	Supplement Left Femoral Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU907Z	Supplement Right Lower Extremity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU90JZ	Supplement Right Lower Extremity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YU90KZ	Supplement Right Lower Extremity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YU947Z	Supplement Right Lower Extremity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU94JZ	Supplement Right Lower Extremity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YU94KZ	Supplement Right Lower Extremity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUA07Z	Supplement Bilateral Inguinal Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUA0JZ	Supplement Bilateral Inguinal Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUA0KZ	Supplement Bilateral Inguinal Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUA47Z	Supplement Bilateral Inguinal Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUA4JZ	Supplement Bilateral Inguinal Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUA4KZ	Supplement Bilateral Inguinal Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUB07Z	Supplement Left Lower Extremity with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUB0JZ	Supplement Left Lower Extremity with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUB0KZ	Supplement Left Lower Extremity with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YUB47Z	Supplement Left Lower Extremity with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUB4JZ	Supplement Left Lower Extremity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUB4KZ	Supplement Left Lower Extremity with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUC07Z	Supplement Right Upper Leg with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUC0JZ	Supplement Right Upper Leg with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUC0KZ	Supplement Right Upper Leg with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUC47Z	Supplement Right Upper Leg with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUC4JZ	Supplement Right Upper Leg with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUC4KZ	Supplement Right Upper Leg with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUD07Z	Supplement Left Upper Leg with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUD0JZ	Supplement Left Upper Leg with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUD0KZ	Supplement Left Upper Leg with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUD47Z	Supplement Left Upper Leg with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUD4JZ	Supplement Left Upper Leg with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUD4KZ	Supplement Left Upper Leg with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUE07Z	Supplement Bilateral Femoral Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUE0JZ	Supplement Bilateral Femoral Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUE0KZ	Supplement Bilateral Femoral Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUE47Z	Supplement Bilateral Femoral Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUE4JZ	Supplement Bilateral Femoral Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUE4KZ	Supplement Bilateral Femoral Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUF07Z	Supplement Right Knee Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUF0JZ	Supplement Right Knee Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUF0KZ	Supplement Right Knee Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUF47Z	Supplement Right Knee Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YUF4JZ	Supplement Right Knee Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUF4KZ	Supplement Right Knee Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUG07Z	Supplement Left Knee Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUG0JZ	Supplement Left Knee Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUG0KZ	Supplement Left Knee Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUG47Z	Supplement Left Knee Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUG4JZ	Supplement Left Knee Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUG4KZ	Supplement Left Knee Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUH07Z	Supplement Right Lower Leg with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUH0JZ	Supplement Right Lower Leg with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUH0KZ	Supplement Right Lower Leg with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUH47Z	Supplement Right Lower Leg with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUH4JZ	Supplement Right Lower Leg with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUH4KZ	Supplement Right Lower Leg with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUJ07Z	Supplement Left Lower Leg with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUJ0JZ	Supplement Left Lower Leg with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUJ0KZ	Supplement Left Lower Leg with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUJ47Z	Supplement Left Lower Leg with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUJ4JZ	Supplement Left Lower Leg with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUJ4KZ	Supplement Left Lower Leg with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUK07Z	Supplement Right Ankle Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUK0JZ	Supplement Right Ankle Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUK0KZ	Supplement Right Ankle Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUK47Z	Supplement Right Ankle Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUK4JZ	Supplement Right Ankle Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YUK4KZ	Supplement Right Ankle Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUL07Z	Supplement Left Ankle Region with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUL0JZ	Supplement Left Ankle Region with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUL0KZ	Supplement Left Ankle Region with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUL47Z	Supplement Left Ankle Region with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUL4JZ	Supplement Left Ankle Region with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUL4KZ	Supplement Left Ankle Region with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUM07Z	Supplement Right Foot with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUM0JZ	Supplement Right Foot with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUM0KZ	Supplement Right Foot with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUM47Z	Supplement Right Foot with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUM4JZ	Supplement Right Foot with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUM4KZ	Supplement Right Foot with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUN07Z	Supplement Left Foot with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUN0JZ	Supplement Left Foot with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUN0KZ	Supplement Left Foot with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUN47Z	Supplement Left Foot with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUN4JZ	Supplement Left Foot with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUN4KZ	Supplement Left Foot with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUP07Z	Supplement Right 1st Toe with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUP0JZ	Supplement Right 1st Toe with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUP0KZ	Supplement Right 1st Toe with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUP47Z	Supplement Right 1st Toe with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUP4JZ	Supplement Right 1st Toe with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUP4KZ	Supplement Right 1st Toe with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUQ07Z	Supplement Left 1st Toe with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUQ0JZ	Supplement Left 1st Toe with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUQ0KZ	Supplement Left 1st Toe with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YUQ47Z	Supplement Left 1st Toe with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUQ4JZ	Supplement Left 1st Toe with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUQ4KZ	Supplement Left 1st Toe with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUR07Z	Supplement Right 2nd Toe with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUR0JZ	Supplement Right 2nd Toe with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUR0KZ	Supplement Right 2nd Toe with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUR47Z	Supplement Right 2nd Toe with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUR4JZ	Supplement Right 2nd Toe with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUR4KZ	Supplement Right 2nd Toe with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUS07Z	Supplement Left 2nd Toe with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUS0JZ	Supplement Left 2nd Toe with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUS0KZ	Supplement Left 2nd Toe with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUS47Z	Supplement Left 2nd Toe with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUS4JZ	Supplement Left 2nd Toe with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUS4KZ	Supplement Left 2nd Toe with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUT07Z	Supplement Right 3rd Toe with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUT0JZ	Supplement Right 3rd Toe with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUT0KZ	Supplement Right 3rd Toe with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUT47Z	Supplement Right 3rd Toe with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUT4JZ	Supplement Right 3rd Toe with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUT4KZ	Supplement Right 3rd Toe with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUU07Z	Supplement Left 3rd Toe with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUU0JZ	Supplement Left 3rd Toe with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUU0KZ	Supplement Left 3rd Toe with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUU47Z	Supplement Left 3rd Toe with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUU4JZ	Supplement Left 3rd Toe with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUU4KZ	Supplement Left 3rd Toe with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0YUV07Z	Supplement Right 4th Toe with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUV0JZ	Supplement Right 4th Toe with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUV0KZ	Supplement Right 4th Toe with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUV47Z	Supplement Right 4th Toe with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUV4JZ	Supplement Right 4th Toe with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUV4KZ	Supplement Right 4th Toe with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUW07Z	Supplement Left 4th Toe with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUW0JZ	Supplement Left 4th Toe with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUW0KZ	Supplement Left 4th Toe with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUW47Z	Supplement Left 4th Toe with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUW4JZ	Supplement Left 4th Toe with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUW4KZ	Supplement Left 4th Toe with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUX07Z	Supplement Right 5th Toe with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUX0JZ	Supplement Right 5th Toe with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUX0KZ	Supplement Right 5th Toe with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUX47Z	Supplement Right 5th Toe with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUX4JZ	Supplement Right 5th Toe with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUX4KZ	Supplement Right 5th Toe with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUY07Z	Supplement Left 5th Toe with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUY0JZ	Supplement Left 5th Toe with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0YUY0KZ	Supplement Left 5th Toe with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0YUY47Z	Supplement Left 5th Toe with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUY4JZ	Supplement Left 5th Toe with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YUY4KZ	Supplement Left 5th Toe with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YW900Z	Revision of Drainage Device in Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YW903Z	Revision of Infusion Device in Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YW907Z	Revision of Autologous Tissue Substitute in Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YW90JZ	Revision of Synthetic Substitute in Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YW90KZ	Revision of Nonautologous Tissue Substitute in Right Lower Extremity, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
0YW90YZ	Revision of Other Device in Right Lower Extremity, Open Approach	PX	ICD-10-PCS
0YW940Z	Revision of Drainage Device in Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YW943Z	Revision of Infusion Device in Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YW947Z	Revision of Autologous Tissue Substitute in Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YW94JZ	Revision of Synthetic Substitute in Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YW94KZ	Revision of Nonautologous Tissue Substitute in Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YW94YZ	Revision of Other Device in Right Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YWB00Z	Revision of Drainage Device in Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YWB03Z	Revision of Infusion Device in Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YWB07Z	Revision of Autologous Tissue Substitute in Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YWB0JZ	Revision of Synthetic Substitute in Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YWB0KZ	Revision of Nonautologous Tissue Substitute in Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YWB0YZ	Revision of Other Device in Left Lower Extremity, Open Approach	PX	ICD-10-PCS
0YWB40Z	Revision of Drainage Device in Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YWB43Z	Revision of Infusion Device in Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YWB47Z	Revision of Autologous Tissue Substitute in Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YWB4JZ	Revision of Synthetic Substitute in Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YWB4KZ	Revision of Nonautologous Tissue Substitute in Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0YWB4YZ	Revision of Other Device in Left Lower Extremity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
10A00ZZ	Abortion of Products of Conception, Open Approach	PX	ICD-10-PCS
10A03ZZ	Abortion of Products of Conception, Percutaneous Approach	PX	ICD-10-PCS
10A04ZZ	Abortion of Products of Conception, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
10A07ZZ	Abortion of Products of Conception, Via Natural or Artificial Opening	PX	ICD-10-PCS
10A08ZZ	Abortion of Products of Conception, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
10D00Z0	Extraction of Products of Conception, High, Open Approach	PX	ICD-10-PCS
10D00Z1	Extraction of Products of Conception, Low, Open Approach	PX	ICD-10-PCS
10D00Z2	Extraction of Products of Conception, Extraperitoneal, Open Approach	PX	ICD-10-PCS
10D17Z9	Manual Extraction of Products of Conception, Retained, Via Natural or Artificial Opening	PX	ICD-10-PCS
10D17ZZ	Extraction of Products of Conception, Retained, Via Natural or Artificial Opening	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
10D18Z9	Manual Extraction of Products of Conception, Retained, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
10D18ZZ	Extraction of Products of Conception, Retained, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
10D20ZZ	Extraction of Products of Conception, Ectopic, Open Approach	PX	ICD-10-PCS
10D24ZZ	Extraction of Products of Conception, Ectopic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
10D27ZZ	Extraction of Products of Conception, Ectopic, Via Natural or Artificial Opening	PX	ICD-10-PCS
10D28ZZ	Extraction of Products of Conception, Ectopic, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
10H00YZ	Insertion of Other Device into Products of Conception, Open Approach	PX	ICD-10-PCS
10P00YZ	Removal of Other Device from Products of Conception, Open Approach	PX	ICD-10-PCS
10S20ZZ	Reposition Products of Conception, Ectopic, Open Approach	PX	ICD-10-PCS
10S23ZZ	Reposition Products of Conception, Ectopic, Percutaneous Approach	PX	ICD-10-PCS
10S24ZZ	Reposition Products of Conception, Ectopic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
10S27ZZ	Reposition Products of Conception, Ectopic, Via Natural or Artificial Opening	PX	ICD-10-PCS
10S28ZZ	Reposition Products of Conception, Ectopic, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
10T20ZZ	Resection of Products of Conception, Ectopic, Open Approach	PX	ICD-10-PCS
10T23ZZ	Resection of Products of Conception, Ectopic, Percutaneous Approach	PX	ICD-10-PCS
10T24ZZ	Resection of Products of Conception, Ectopic, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
10T27ZZ	Resection of Products of Conception, Ectopic, Via Natural or Artificial Opening	PX	ICD-10-PCS
10T28ZZ	Resection of Products of Conception, Ectopic, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-PCS
13160	Secondary closure of surgical wound or dehiscence, extensive or complicated	PX	CPT-4
14020	Adjacent tissue transfer or rearrangement, scalp, arms and/or legs; defect 10 sq cm or less	PX	CPT-4
14021	Adjacent tissue transfer or rearrangement, scalp, arms and/or legs; defect 10.1 sq cm to 30.0 sq cm	PX	CPT-4
14040	Adjacent tissue transfer or rearrangement, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands and/or feet; defect 10 sq cm or less	PX	CPT-4
14041	Adjacent tissue transfer or rearrangement, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands and/or feet; defect 10.1 sq cm to 30.0 sq cm	PX	CPT-4
14060	Adjacent tissue transfer or rearrangement, eyelids, nose, ears and/or lips; defect 10 sq cm or less	PX	CPT-4
14061	Adjacent tissue transfer or rearrangement, eyelids, nose, ears and/or lips; defect 10.1 sq cm to 30.0 sq cm	PX	CPT-4
14301	Adjacent tissue transfer or rearrangement, any area; defect 30.1 sq cm to 60.0 sq cm	PX	CPT-4
15100	Split-thickness autograft, trunk, arms, legs; first 100 sq cm or less, or 1% of body area of infants and children (except 15050)	PX	CPT-4
15120	Split-thickness autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children (except 15050)	PX	CPT-4

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Code	Description	Code Category	Code Type
15240	Full thickness graft, free, including direct closure of donor site, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands, and/or feet; 20 sq cm or less	PX	CPT-4
15260	Full thickness graft, free, including direct closure of donor site, nose, ears, eyelids, and/or lips; 20 sq cm or less	PX	CPT-4
15730	Midface flap (ie, zygomaticofacial flap) with preservation of vascular pedicle(s)	PX	CPT-4
15733	Muscle, myocutaneous, or fasciocutaneous flap; head and neck with named vascular pedicle (ie, buccinators, genioglossus, temporalis, masseter, sternocleidomastoid, levator scapulae)	PX	CPT-4
15734	Muscle, myocutaneous, or fasciocutaneous flap; trunk	PX	CPT-4
15769	Grafting of autologous soft tissue, other, harvested by direct excision (eg, fat, dermis, fascia)	PX	CPT-4
15771	Grafting of autologous fat harvested by liposuction technique to trunk, breasts, scalp, arms, and/or legs; 50 cc or less injectate	PX	CPT-4
15773	Grafting of autologous fat harvested by liposuction technique to face, eyelids, mouth, neck, ears, orbits, genitalia, hands, and/or feet; 25 cc or less injectate	PX	CPT-4
15823	Blepharoplasty, upper eyelid; with excessive skin weighting down lid	PX	CPT-4
19120	Excision of cyst, fibroadenoma, or other benign or malignant tumor, aberrant breast tissue, duct lesion, nipple or areolar lesion (except 19300), open, male or female, 1 or more lesions	PX	CPT-4
19125	Excision of breast lesion identified by preoperative placement of radiological marker, open; single lesion	PX	CPT-4
19301	Mastectomy, partial (eg, lumpectomy, tylectomy, quadrantectomy, segmentectomy);	PX	CPT-4
19303	Mastectomy, simple, complete	PX	CPT-4
19307	Mastectomy, modified radical, including axillary lymph nodes, with or without pectoralis minor muscle, but excluding pectoralis major muscle	PX	CPT-4
19357	Tissue expander placement in breast reconstruction, including subsequent expansion(s)	PX	CPT-4
20680	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	PX	CPT-4
22551	Arthrodesis, anterior interbody, including disc space preparation, discectomy, osteophytectomy and decompression of spinal cord and/or nerve roots; cervical below C2	PX	CPT-4
22558	Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); lumbar	PX	CPT-4
22600	Arthrodesis, posterior or posterolateral technique, single interspace; cervical below C2 segment	PX	CPT-4
22612	Arthrodesis, posterior or posterolateral technique, single interspace; lumbar (with lateral transverse technique, when performed)	PX	CPT-4
22630	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace, lumbar;	PX	CPT-4
22633	Arthrodesis, combined posterior or posterolateral technique with posterior interbody technique including laminectomy and/or discectomy sufficient to prepare interspace (other than for decompression), single interspace, lumbar;	PX	CPT-4

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Code	Description	Code Category	Code Type
22830	Exploration of spinal fusion	PX	CPT-4
23120	Claviculectomy; partial	PX	CPT-4
23412	Repair of ruptured musculotendinous cuff (eg, rotator cuff) open; chronic	PX	CPT-4
23430	Tenodesis of long tendon of biceps	PX	CPT-4
23472	Arthroplasty, glenohumeral joint; total shoulder (glenoid and proximal humeral replacement (eg, total shoulder))	PX	CPT-4
23500	Closed treatment of clavicular fracture; without manipulation	PX	CPT-4
23600	Closed treatment of proximal humeral (surgical or anatomical neck) fracture; without manipulation	PX	CPT-4
23615	Open treatment of proximal humeral (surgical or anatomical neck) fracture, includes internal fixation, when performed, includes repair of tuberosity(s), when performed;	PX	CPT-4
23650	Closed treatment of shoulder dislocation, with manipulation; without anesthesia	PX	CPT-4
25447	Arthroplasty, intercarpal or carpometacarpal joints; interposition (eg, tendon)	PX	CPT-4
25448	Arthroplasty, intercarpal or carpometacarpal joints; suspension, including transfer or transplant of tendon, with interposition, when performed	PX	CPT-4
25600	Closed treatment of distal radial fracture (eg, Colles or Smith type) or epiphyseal separation, includes closed treatment of fracture of ulnar styloid, when performed; without manipulation	PX	CPT-4
25605	Closed treatment of distal radial fracture (eg, Colles or Smith type) or epiphyseal separation, includes closed treatment of fracture of ulnar styloid, when performed; with manipulation	PX	CPT-4
25607	Open treatment of distal radial extra-articular fracture or epiphyseal separation, with internal fixation	PX	CPT-4
25609	Open treatment of distal radial intra-articular fracture or epiphyseal separation; with internal fixation of 3 or more fragments	PX	CPT-4
26055	Tendon sheath incision (eg, for trigger finger)	PX	CPT-4
26160	Excision of lesion of tendon sheath or joint capsule (eg, cyst, mucous cyst, or ganglion), hand or finger	PX	CPT-4
26600	Closed treatment of metacarpal fracture, single; without manipulation, each bone	PX	CPT-4
26720	Closed treatment of phalangeal shaft fracture, proximal or middle phalanx, finger or thumb; without manipulation, each	PX	CPT-4
27125	Hemiarthroplasty, hip, partial (eg, femoral stem prosthesis, bipolar arthroplasty)	PX	CPT-4
27130	Arthroplasty, acetabular and proximal femoral prosthetic replacement (total hip arthroplasty), with or without autograft or allograft	PX	CPT-4
27132	Conversion of previous hip surgery to total hip arthroplasty, with or without autograft or allograft	PX	CPT-4
27134	Revision of total hip arthroplasty; both components, with or without autograft or allograft	PX	CPT-4
27235	Percutaneous skeletal fixation of femoral fracture, proximal end, neck	PX	CPT-4
27236	Open treatment of femoral fracture, proximal end, neck, internal fixation or prosthetic replacement	PX	CPT-4

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Code	Description	Code Category	Code Type
27244	Treatment of intertrochanteric, peritrochanteric, or subtrochanteric femoral fracture; with plate/screw type implant, with or without cerclage	PX	CPT-4
27245	Treatment of intertrochanteric, peritrochanteric, or subtrochanteric femoral fracture; with intramedullary implant, with or without interlocking screws and/or cerclage	PX	CPT-4
27446	Arthroplasty, knee, condyle and plateau; medial OR lateral compartment	PX	CPT-4
27447	Arthroplasty, knee, condyle and plateau; medial AND lateral compartments with or without patella resurfacing (total knee arthroplasty)	PX	CPT-4
27486	Revision of total knee arthroplasty, with or without allograft; 1 component	PX	CPT-4
27487	Revision of total knee arthroplasty, with or without allograft; femoral and entire tibial component	PX	CPT-4
27506	Open treatment of femoral shaft fracture, with or without external fixation, with insertion of intramedullary implant, with or without cerclage and/or locking screws	PX	CPT-4
27590	Amputation, thigh, through femur, any level;	PX	CPT-4
27786	Closed treatment of distal fibular fracture (lateral malleolus); without manipulation	PX	CPT-4
27814	Open treatment of bimalleolar ankle fracture (eg, lateral and medial malleoli, or lateral and posterior malleoli, or medial and posterior malleoli), includes internal fixation, when performed	PX	CPT-4
27880	Amputation, leg, through tibia and fibula;	PX	CPT-4
28122	Partial excision (craterization, saucerization, sequestrectomy, or diaphysectomy) bone (eg, osteomyelitis or bossing); tarsal or metatarsal bone, except talus or calcaneus	PX	CPT-4
28124	Partial excision (craterization, saucerization, sequestrectomy, or diaphysectomy) bone (eg, osteomyelitis or bossing); phalanx of toe	PX	CPT-4
28232	Tenotomy, open, tendon flexor; toe, single tendon (separate procedure)	PX	CPT-4
28270	Capsulotomy; metatarsophalangeal joint, with or without tenorrhaphy, each joint (separate procedure)	PX	CPT-4
28285	Correction, hammertoe (eg, interphalangeal fusion, partial or total phalangectomy)	PX	CPT-4
28296	Correction, hallux valgus with bunionectomy, with sesamoidectomy when performed; with distal metatarsal osteotomy, any method	PX	CPT-4
28308	Osteotomy, with or without lengthening, shortening or angular correction, metatarsal; other than first metatarsal, each	PX	CPT-4
28470	Closed treatment of metatarsal fracture; without manipulation, each	PX	CPT-4
28510	Closed treatment of fracture, phalanx or phalanges, other than great toe; without manipulation, each	PX	CPT-4
28810	Amputation, metatarsal, with toe, single	PX	CPT-4
29822	Arthroscopy, shoulder, surgical; debridement, limited, 1 or 2 discrete structures (eg, humeral bone, humeral articular cartilage, glenoid bone, glenoid articular cartilage, biceps tendon, biceps anchor complex, labrum, articular capsule, articular side of the rotator cuff, bursal side of the rotator cuff, subacromial bursa, foreign body[ies])	PX	CPT-4

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Code	Description	Code Category	Code Type
29823	Arthroscopy, shoulder, surgical; debridement, extensive, 3 or more discrete structures (eg, humeral bone, humeral articular cartilage, glenoid bone, glenoid articular cartilage, biceps tendon, biceps anchor complex, labrum, articular capsule, articular side of the rotator cuff, bursal side of the rotator cuff, subacromial bursa, foreign body[ies])	PX	CPT-4
29824	Arthroscopy, shoulder, surgical; distal claviculectomy including distal articular surface (Mumford procedure)	PX	CPT-4
29827	Arthroscopy, shoulder, surgical; with rotator cuff repair	PX	CPT-4
29828	Arthroscopy, shoulder, surgical; biceps tenodesis	PX	CPT-4
29848	Endoscopy, wrist, surgical, with release of transverse carpal ligament	PX	CPT-4
29876	Arthroscopy, knee, surgical; synovectomy, major, 2 or more compartments (eg, medial or lateral)	PX	CPT-4
29879	Arthroscopy, knee, surgical; abrasion arthroplasty (includes chondroplasty where necessary) or multiple drilling or microfracture	PX	CPT-4
29880	Arthroscopy, knee, surgical; with meniscectomy (medial AND lateral, including any meniscal shaving) including debridement/shaving of articular cartilage (chondroplasty), same or separate compartment(s), when performed	PX	CPT-4
29881	Arthroscopy, knee, surgical; with meniscectomy (medial OR lateral, including any meniscal shaving) including debridement/shaving of articular cartilage (chondroplasty), same or separate compartment(s), when performed	PX	CPT-4
30520	Septoplasty or submucous resection, with or without cartilage scoring, contouring or replacement with graft	PX	CPT-4
32480	Removal of lung, other than pneumonectomy; single lobe (lobectomy)	PX	CPT-4
32663	Thoracoscopy, surgical; with lobectomy (single lobe)	PX	CPT-4
33207	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular	PX	CPT-4
33208	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular	PX	CPT-4
33228	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; dual lead system	PX	CPT-4
33249	Insertion or replacement of permanent implantable defibrillator system, with transvenous lead(s), single or dual chamber	PX	CPT-4
33263	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; dual lead system	PX	CPT-4
33264	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; multiple lead system	PX	CPT-4
33405	Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	PX	CPT-4
33426	Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	PX	CPT-4
33430	Replacement, mitral valve, with cardiopulmonary bypass	PX	CPT-4
33533	Coronary artery bypass, using arterial graft(s); single arterial graft	PX	CPT-4
33858	Ascending aorta graft, with cardiopulmonary bypass, includes valve suspension, when performed; for aortic dissection	PX	CPT-4
33859	Ascending aorta graft, with cardiopulmonary bypass, includes valve suspension, when performed; for aortic disease other than dissection (eg, aneurysm)	PX	CPT-4

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Code	Description	Code Category	Code Type
34705	Endovascular repair of infrarenal aorta and/or iliac artery(ies) by deployment of an aorto-bi-iliac endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the iliac bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the iliac bifurcation; for other than rupture (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer)	PX	CPT-4
34706	Endovascular repair of infrarenal aorta and/or iliac artery(ies) by deployment of an aorto-bi-iliac endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the iliac bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the iliac bifurcation; for rupture including temporary aortic and/or iliac balloon occlusion, when performed (eg, for aneurysm, pseudoaneurysm, dissect	PX	CPT-4
34710	Delayed placement of distal or proximal extension prosthesis for endovascular repair of infrarenal abdominal aortic or iliac aneurysm, false aneurysm, dissection, endoleak, or endograft migration, including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, and treatment zone angioplasty/stenting, when performed; initial vessel treated	PX	CPT-4
35301	Thromboendarterectomy, including patch graft, if performed; carotid, vertebral, subclavian, by neck incision	PX	CPT-4
36819	Arteriovenous anastomosis, open; by upper arm basilic vein transposition	PX	CPT-4
36821	Arteriovenous anastomosis, open; direct, any site (eg, Cimino type) (separate procedure)	PX	CPT-4
36830	Creation of arteriovenous fistula by other than direct arteriovenous anastomosis (separate procedure); nonautogenous graft (eg, biological collagen, thermoplastic graft)	PX	CPT-4
36832	Revision, open, arteriovenous fistula; without thrombectomy, autogenous or nonautogenous dialysis graft (separate procedure)	PX	CPT-4
37607	Ligation or banding of angioaccess arteriovenous fistula	PX	CPT-4
38525	Biopsy or excision of lymph node(s); open, deep axillary node(s)	PX	CPT-4
38724	Cervical lymphadenectomy (modified radical neck dissection)	PX	CPT-4
3E030TZ	Introduction of Destructive Agent into Peripheral Vein, Open Approach	PX	ICD-10-PCS
3E040TZ	Introduction of Destructive Agent into Central Vein, Open Approach	PX	ICD-10-PCS
3E070GC	Introduction of Other Therapeutic Substance into Coronary Artery, Open Approach	PX	ICD-10-PCS
3E074GC	Introduction of Other Therapeutic Substance into Coronary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E080GC	Introduction of Other Therapeutic Substance into Heart, Open Approach	PX	ICD-10-PCS
3E084GC	Introduction of Other Therapeutic Substance into Heart, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0E4GC	Introduction of Other Therapeutic Substance into Products of Conception, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
3E0F4GC	Introduction of Other Therapeutic Substance into Respiratory Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0G4GC	Introduction of Other Therapeutic Substance into Upper GI, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0H4GC	Introduction of Other Therapeutic Substance into Lower GI, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0J4GC	Introduction of Other Therapeutic Substance into Biliary and Pancreatic Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0K4GC	Introduction of Other Therapeutic Substance into Genitourinary Tract, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0L05Z	Introduction of Adhesion Barrier into Pleural Cavity, Open Approach	PX	ICD-10-PCS
3E0L45Z	Introduction of Adhesion Barrier into Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0L4GC	Introduction of Other Therapeutic Substance into Pleural Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0M05Z	Introduction of Adhesion Barrier into Peritoneal Cavity, Open Approach	PX	ICD-10-PCS
3E0M45Z	Introduction of Adhesion Barrier into Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0M4GC	Introduction of Other Therapeutic Substance into Peritoneal Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0N4GC	Introduction of Other Therapeutic Substance into Male Reproductive, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0P05Z	Introduction of Adhesion Barrier into Female Reproductive, Open Approach	PX	ICD-10-PCS
3E0P45Z	Introduction of Adhesion Barrier into Female Reproductive, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0P4GC	Introduction of Other Therapeutic Substance into Female Reproductive, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0Q004	Introduction of Liquid Brachytherapy Radioisotope into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q005	Introduction of Other Antineoplastic into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q00M	Introduction of Antineoplastic, Monoclonal Antibody, into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q028	Introduction of Oxazolidinones into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q029	Introduction of Other Anti-infective into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q03Z	Introduction of Anti-inflammatory into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q06Z	Introduction of Nutritional Substance into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q07Z	Introduction of Electrolytic and Water Balance Substance into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q0AZ	Introduction of Embryonic Stem Cells into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q0BZ	Introduction of Anesthetic Agent into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
3E0Q0E0	Introduction of Autologous Somatic Stem Cells into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q0E1	Introduction of Nonautologous Somatic Stem Cells into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q0GC	Introduction of Other Therapeutic Substance into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q0HZ	Introduction of Radioactive Substance into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q0NZ	Introduction of Analgesics, Hypnotics, Sedatives into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q0SF	Introduction of Other Gas into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0Q0TZ	Introduction of Destructive Agent into Cranial Cavity and Brain, Open Approach	PX	ICD-10-PCS
3E0R0AZ	Introduction of Embryonic Stem Cells into Spinal Canal, Open Approach	PX	ICD-10-PCS
3E0R0E0	Introduction of Autologous Somatic Stem Cells into Spinal Canal, Open Approach	PX	ICD-10-PCS
3E0R0E1	Introduction of Nonautologous Somatic Stem Cells into Spinal Canal, Open Approach	PX	ICD-10-PCS
3E0U028	Introduction of Oxazolidinones into Joints, Open Approach	PX	ICD-10-PCS
3E0U029	Introduction of Other Anti-infective into Joints, Open Approach	PX	ICD-10-PCS
3E0U0GB	Introduction of Recombinant Bone Morphogenetic Protein into Joints, Open Approach	PX	ICD-10-PCS
3E0U4GC	Introduction of Other Therapeutic Substance into Joints, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0V0GB	Introduction of Recombinant Bone Morphogenetic Protein into Bones, Open Approach	PX	ICD-10-PCS
3E0V0GC	Introduction of Other Therapeutic Substance into Bones, Open Approach	PX	ICD-10-PCS
3E0V4GC	Introduction of Other Therapeutic Substance into Bones, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E0Y4GC	Introduction of Other Therapeutic Substance into Pericardial Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E1M48Z	Irrigation of Peritoneal Cavity using Irrigating Substance, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
3E1U48Z	Irrigation of Joints using Irrigating Substance, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
43281	Laparoscopy, surgical, repair of paraesophageal hernia, includes fundoplasty, when performed; without implantation of mesh	PX	CPT-4
43644	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and Roux-en-Y gastroenterostomy (roux limb 150 cm or less)	PX	CPT-4
44005	Enterolysis (freeing of intestinal adhesion) (separate procedure)	PX	CPT-4
44120	Enterectomy, resection of small intestine; single resection and anastomosis	PX	CPT-4
44140	Colectomy, partial; with anastomosis	PX	CPT-4
44143	Colectomy, partial; with end colostomy and closure of distal segment (Hartmann type procedure)	PX	CPT-4
44145	Colectomy, partial; with coloproctostomy (low pelvic anastomosis)	PX	CPT-4
44160	Colectomy, partial, with removal of terminal ileum with ileocolostomy	PX	CPT-4

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
44204	Laparoscopy, surgical; colectomy, partial, with anastomosis	PX	CPT-4
44205	Laparoscopy, surgical; colectomy, partial, with removal of terminal ileum with ileocolostomy	PX	CPT-4
44207	Laparoscopy, surgical; colectomy, partial, with anastomosis, with coloproctostomy (low pelvic anastomosis)	PX	CPT-4
44970	Laparoscopy, surgical, appendectomy	PX	CPT-4
46930	Destruction of internal hemorrhoid(s) by thermal energy (eg, infrared coagulation, cautery, radiofrequency)	PX	CPT-4
47562	Laparoscopy, surgical; cholecystectomy	PX	CPT-4
47563	Laparoscopy, surgical; cholecystectomy with cholangiography	PX	CPT-4
47600	Cholecystectomy;	PX	CPT-4
49505	Repair initial inguinal hernia, age 5 years or older; reducible	PX	CPT-4
49507	Repair initial inguinal hernia, age 5 years or older; incarcerated or strangulated	PX	CPT-4
49650	Laparoscopy, surgical; repair initial inguinal hernia	PX	CPT-4
50360	Renal allotransplantation, implantation of graft; without recipient nephrectomy	PX	CPT-4
50590	Lithotripsy, extracorporeal shock wave	PX	CPT-4
52601	Transurethral electrosurgical resection of prostate, including control of postoperative bleeding, complete (vasectomy, meatotomy, cystourethroscopy, urethral calibration and/or dilation, and internal urethrotomy are included)	PX	CPT-4
52648	Laser vaporization of prostate, including control of postoperative bleeding, complete (vasectomy, meatotomy, cystourethroscopy, urethral calibration and/or dilation, internal urethrotomy and transurethral resection of prostate are included if performed)	PX	CPT-4
53850	Transurethral destruction of prostate tissue; by microwave thermotherapy	PX	CPT-4
55866	Laparoscopy, surgical prostatectomy, retropubic radical, including nerve sparing, includes robotic assistance, when performed	PX	CPT-4
57240	Anterior colporrhaphy, repair of cystocele with or without repair of urethrocele, including cystourethroscopy, when performed	PX	CPT-4
57288	Sling operation for stress incontinence (eg, fascia or synthetic)	PX	CPT-4
58571	Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)	PX	CPT-4
58575	Laparoscopy, surgical, total hysterectomy for resection of malignancy (tumor debulking), with omentectomy including salpingo-oophorectomy, unilateral or bilateral, when performed	PX	CPT-4
60240	Thyroidectomy, total or complete	PX	CPT-4
60500	Parathyroidectomy or exploration of parathyroid(s);	PX	CPT-4
61312	Craniectomy or craniotomy for evacuation of hematoma, supratentorial; extradural or subdural	PX	CPT-4
61510	Craniectomy, trephination, bone flap craniotomy; for excision of brain tumor, supratentorial, except meningioma	PX	CPT-4
63030	Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc; 1 interspace, lumbar	PX	CPT-4

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
63042	Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, reexploration, single interspace; lumbar	PX	CPT-4
63045	Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; cervical	PX	CPT-4
63047	Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; lumbar	PX	CPT-4
63056	Transpedicular approach with decompression of spinal cord, equina and/or nerve root(s) (eg, herniated intervertebral disc), single segment; lumbar (including transfacet, or lateral extraforaminal approach) (eg, far lateral herniated intervertebral disc)	PX	CPT-4
63081	Vertebral corpectomy (vertebral body resection), partial or complete, anterior approach with decompression of spinal cord and/or nerve root(s); cervical, single segment	PX	CPT-4
64581	Open implantation of neurostimulator electrode array; sacral nerve (transforaminal placement)	PX	CPT-4
64718	Neuroplasty and/or transposition; ulnar nerve at elbow	PX	CPT-4
64721	Neuroplasty and/or transposition; median nerve at carpal tunnel	PX	CPT-4
65756	Keratoplasty (corneal transplant); endothelial	PX	CPT-4
66170	Fistulization of sclera for glaucoma; trabeculectomy ab externo in absence of previous surgery	PX	CPT-4
66179	Aqueous shunt to extraocular equatorial plate reservoir, external approach; without graft	PX	CPT-4
66180	Aqueous shunt to extraocular equatorial plate reservoir, external approach; with graft	PX	CPT-4
66711	Ciliary body destruction; cyclophotocoagulation, endoscopic, without concomitant removal of crystalline lens	PX	CPT-4
66821	Discission of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); laser surgery (eg, YAG laser) (1 or more stages)	PX	CPT-4
66982	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1-stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification), complex, requiring devices or techniques not generally used in routine cataract surgery (eg, iris expansion device, suture support for intraocular lens, or primary posterior capsulorrhexis) or performed on patients in the amblyogenic developmental stage; without endoscopic cyclophotocoagulation	PX	CPT-4
66984	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1 stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification); without endoscopic cyclophotocoagulation	PX	CPT-4

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Code	Description	Code Category	Code Type
66989	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1-stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification), complex, requiring devices or techniques not generally used in routine cataract surgery (eg, iris expansion device, suture support for intraocular lens, or primary posterior capsulorrhexis) or performed on patients in the amblyogenic developmental stage; with insertion of intraocular (eg, trabecular meshwork, supraciliary, suprachoroidal) anterior segment aqueous drainage device, without extraocular reservoir, i	PX	CPT-4
66991	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1 stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification); with insertion of intraocular (eg, trabecular meshwork, supraciliary, suprachoroidal) anterior segment aqueous drainage device, without extraocular reservoir, internal approach, one or more	PX	CPT-4
67036	Vitrectomy, mechanical, pars plana approach;	PX	CPT-4
67040	Vitrectomy, mechanical, pars plana approach; with endolaser panretinal photocoagulation	PX	CPT-4
67041	Vitrectomy, mechanical, pars plana approach; with removal of preretinal cellular membrane (eg, macular pucker)	PX	CPT-4
67042	Vitrectomy, mechanical, pars plana approach; with removal of internal limiting membrane of retina (eg, for repair of macular hole, diabetic macular edema), includes, if performed, intraocular tamponade (ie, air, gas or silicone oil)	PX	CPT-4
67108	Repair of retinal detachment; with vitrectomy, any method, including, when performed, air or gas tamponade, focal endolaser photocoagulation, cryotherapy, drainage of subretinal fluid, scleral buckling, and/or removal of lens by same technique	PX	CPT-4
67113	Repair of complex retinal detachment (eg, proliferative vitreoretinopathy, stage C-1 or greater, diabetic traction retinal detachment, retinopathy of prematurity, retinal tear of greater than 90 degrees), with vitrectomy and membrane peeling, including, when performed, air, gas, or silicone oil tamponade, cryotherapy, endolaser photocoagulation, drainage of subretinal fluid, scleral buckling, and/or removal of lens	PX	CPT-4
67210	Destruction of localized lesion of retina (eg, macular edema, tumors), 1 or more sessions; photocoagulation	PX	CPT-4
67255	Scleral reinforcement (separate procedure); with graft	PX	CPT-4
67900	Repair of brow ptosis (supraciliary, mid-forehead or coronal approach)	PX	CPT-4
67904	Repair of blepharoptosis; (tarso) levator resection or advancement, external approach	PX	CPT-4
67917	Repair of ectropion; extensive (eg, tarsal strip operations)	PX	CPT-4
67924	Repair of entropion; extensive (eg, tarsal strip or capsulopalpebral fascia repairs operation)	PX	CPT-4
6AB50BZ	Perfusion of Circulatory Donor Organ, Single	PX	ICD-10-PCS
6ABB0BZ	Perfusion of Respiratory System Donor Organ, Single	PX	ICD-10-PCS
6ABF0BZ	Perfusion of Hepatobiliary System and Pancreas Donor Organ, Single	PX	ICD-10-PCS
6ABT0BZ	Perfusion of Urinary System Donor Organ, Single	PX	ICD-10-PCS
D0Y0KZZ	Laser Interstitial Thermal Therapy of Brain	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
D0Y1KZZ	Laser Interstitial Thermal Therapy of Brain Stem	PX	ICD-10-PCS
D0Y6KZZ	Laser Interstitial Thermal Therapy of Spinal Cord	PX	ICD-10-PCS
D0Y7KZZ	Laser Interstitial Thermal Therapy of Peripheral Nerve	PX	ICD-10-PCS
DBY0KZZ	Laser Interstitial Thermal Therapy of Trachea	PX	ICD-10-PCS
DBY1KZZ	Laser Interstitial Thermal Therapy of Bronchus	PX	ICD-10-PCS
DBY2KZZ	Laser Interstitial Thermal Therapy of Lung	PX	ICD-10-PCS
DBY5KZZ	Laser Interstitial Thermal Therapy of Pleura	PX	ICD-10-PCS
DBY6KZZ	Laser Interstitial Thermal Therapy of Mediastinum	PX	ICD-10-PCS
DBY7KZZ	Laser Interstitial Thermal Therapy of Chest Wall	PX	ICD-10-PCS
DBY8KZZ	Laser Interstitial Thermal Therapy of Diaphragm	PX	ICD-10-PCS
DDY0KZZ	Laser Interstitial Thermal Therapy of Esophagus	PX	ICD-10-PCS
DDY1KZZ	Laser Interstitial Thermal Therapy of Stomach	PX	ICD-10-PCS
DDY2KZZ	Laser Interstitial Thermal Therapy of Duodenum	PX	ICD-10-PCS
DDY3KZZ	Laser Interstitial Thermal Therapy of Jejunum	PX	ICD-10-PCS
DDY4KZZ	Laser Interstitial Thermal Therapy of Ileum	PX	ICD-10-PCS
DDY5KZZ	Laser Interstitial Thermal Therapy of Colon	PX	ICD-10-PCS
DDY7KZZ	Laser Interstitial Thermal Therapy of Rectum	PX	ICD-10-PCS
DDY8KZZ	Laser Interstitial Thermal Therapy of Anus	PX	ICD-10-PCS
DFY0KZZ	Laser Interstitial Thermal Therapy of Liver	PX	ICD-10-PCS
DFY1KZZ	Laser Interstitial Thermal Therapy of Gallbladder	PX	ICD-10-PCS
DFY2KZZ	Laser Interstitial Thermal Therapy of Bile Ducts	PX	ICD-10-PCS
DFY3KZZ	Laser Interstitial Thermal Therapy of Pancreas	PX	ICD-10-PCS
DGY0KZZ	Laser Interstitial Thermal Therapy of Pituitary Gland	PX	ICD-10-PCS
DGY1KZZ	Laser Interstitial Thermal Therapy of Pineal Body	PX	ICD-10-PCS
DGY2KZZ	Laser Interstitial Thermal Therapy of Adrenal Glands	PX	ICD-10-PCS
DGY4KZZ	Laser Interstitial Thermal Therapy of Parathyroid Glands	PX	ICD-10-PCS
DGY5KZZ	Laser Interstitial Thermal Therapy of Thyroid	PX	ICD-10-PCS
DMY0KZZ	Laser Interstitial Thermal Therapy of Left Breast	PX	ICD-10-PCS
DMY1KZZ	Laser Interstitial Thermal Therapy of Right Breast	PX	ICD-10-PCS
DVY0KZZ	Laser Interstitial Thermal Therapy of Prostate	PX	ICD-10-PCS
X051329	Destruction of Renal Sympathetic Nerve(s) using Ultrasound Ablation, Percutaneous Approach, New Technology Group 9	PX	ICD-10-PCS
X05133A	Destruction of Renal Sympathetic Nerve(s) using Radiofrequency Ablation, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
X0HK3Q8	Insertion of Neurostimulator Lead into Sphenopalatine Ganglion, Percutaneous Approach, New Technology Group 8	PX	ICD-10-PCS
X0HQ3R8	Insertion of Neurostimulator Lead with Paired Stimulation System into Vagus Nerve, Percutaneous Approach, New Technology Group 8	PX	ICD-10-PCS
X27H385	Dilation of Right Femoral Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27H395	Dilation of Right Femoral Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27H3B5	Dilation of Right Femoral Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
X27H3C5	Dilation of Right Femoral Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27J385	Dilation of Left Femoral Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27J395	Dilation of Left Femoral Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27J3B5	Dilation of Left Femoral Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27J3C5	Dilation of Left Femoral Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27K385	Dilation of Proximal Right Popliteal Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27K395	Dilation of Proximal Right Popliteal Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27K3B5	Dilation of Proximal Right Popliteal Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27K3C5	Dilation of Proximal Right Popliteal Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27L385	Dilation of Proximal Left Popliteal Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27L395	Dilation of Proximal Left Popliteal Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27L3B5	Dilation of Proximal Left Popliteal Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27L3C5	Dilation of Proximal Left Popliteal Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27M385	Dilation of Distal Right Popliteal Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27M395	Dilation of Distal Right Popliteal Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27M3B5	Dilation of Distal Right Popliteal Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27M3C5	Dilation of Distal Right Popliteal Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27N385	Dilation of Distal Left Popliteal Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27N395	Dilation of Distal Left Popliteal Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27N3B5	Dilation of Distal Left Popliteal Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27N3C5	Dilation of Distal Left Popliteal Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
X27P385	Dilation of Right Anterior Tibial Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27P395	Dilation of Right Anterior Tibial Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27P3B5	Dilation of Right Anterior Tibial Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27P3C5	Dilation of Right Anterior Tibial Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27P3TA	Dilation of Right Anterior Tibial Artery with Intraluminal Device, Everolimus-eluting Resorbable Scaffold(s), Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
X27Q385	Dilation of Left Anterior Tibial Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27Q395	Dilation of Left Anterior Tibial Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27Q3B5	Dilation of Left Anterior Tibial Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27Q3C5	Dilation of Left Anterior Tibial Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27Q3TA	Dilation of Left Anterior Tibial Artery with Intraluminal Device, Everolimus-eluting Resorbable Scaffold(s), Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
X27R385	Dilation of Right Posterior Tibial Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27R395	Dilation of Right Posterior Tibial Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27R3B5	Dilation of Right Posterior Tibial Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27R3C5	Dilation of Right Posterior Tibial Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27R3TA	Dilation of Right Posterior Tibial Artery with Intraluminal Device, Everolimus-eluting Resorbable Scaffold(s), Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
X27S385	Dilation of Left Posterior Tibial Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27S395	Dilation of Left Posterior Tibial Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27S3B5	Dilation of Left Posterior Tibial Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27S3C5	Dilation of Left Posterior Tibial Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
X27S3TA	Dilation of Left Posterior Tibial Artery with Intraluminal Device, Everolimus-eluting Resorbable Scaffold(s), Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
X27T385	Dilation of Right Peroneal Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27T395	Dilation of Right Peroneal Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27T3B5	Dilation of Right Peroneal Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27T3C5	Dilation of Right Peroneal Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27T3TA	Dilation of Right Peroneal Artery with Intraluminal Device, Everolimus-eluting Resorbable Scaffold(s), Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
X27U385	Dilation of Left Peroneal Artery with Sustained Release Drug-eluting Intraluminal Device, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27U395	Dilation of Left Peroneal Artery with Two Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27U3B5	Dilation of Left Peroneal Artery with Three Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27U3C5	Dilation of Left Peroneal Artery with Four or More Sustained Release Drug-eluting Intraluminal Devices, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X27U3TA	Dilation of Left Peroneal Artery with Intraluminal Device, Everolimus-eluting Resorbable Scaffold(s), Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
X28F3VA	Division of Aortic Valve using Intraluminal Bioprosthetic Valve Leaflet Splitting Technology in Existing Valve, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
X2A5312	Cerebral Embolic Filtration, Dual Filter in Innominate Artery and Left Common Carotid Artery, Percutaneous Approach, New Technology Group 2	PX	ICD-10-PCS
X2A6325	Cerebral Embolic Filtration, Single Deflection Filter in Aortic Arch, Percutaneous Approach, New Technology Group 5	PX	ICD-10-PCS
X2AH336	Cerebral Embolic Filtration, Extracorporeal Flow Reversal Circuit from Right Common Carotid Artery, Percutaneous Approach, New Technology Group 6	PX	ICD-10-PCS
X2AJ336	Cerebral Embolic Filtration, Extracorporeal Flow Reversal Circuit from Left Common Carotid Artery, Percutaneous Approach, New Technology Group 6	PX	ICD-10-PCS
X2C0361	Extirpation of Matter from Coronary Artery, One Artery using Orbital Atherectomy Technology, Percutaneous Approach, New Technology Group 1	PX	ICD-10-PCS
X2C1361	Extirpation of Matter from Coronary Artery, Two Arteries using Orbital Atherectomy Technology, Percutaneous Approach, New Technology Group 1	PX	ICD-10-PCS
X2C2361	Extirpation of Matter from Coronary Artery, Three Arteries using Orbital Atherectomy Technology, Percutaneous Approach, New Technology Group 1	PX	ICD-10-PCS
X2C3361	Extirpation of Matter from Coronary Artery, Four or More Arteries using Orbital Atherectomy Technology, Percutaneous Approach, New Technology Group 1	PX	ICD-10-PCS
X2CP3T7	Extirpation of Matter from Abdominal Aorta using Computer-aided Mechanical Aspiration, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS

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Code	Description	Code Category	Code Type
X2CQ3T7	Extirpation of Matter from Right Upper Extremity Vein using Computer-aided Mechanical Aspiration, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
X2CR3T7	Extirpation of Matter from Left Upper Extremity Vein using Computer-aided Mechanical Aspiration, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
X2CS3T7	Extirpation of Matter from Right Lower Extremity Artery using Computer-aided Mechanical Aspiration, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
X2CT3T7	Extirpation of Matter from Left Lower Extremity Artery using Computer-aided Mechanical Aspiration, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
X2CU3T7	Extirpation of Matter from Right Lower Extremity Vein using Computer-aided Mechanical Aspiration, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
X2CV3T7	Extirpation of Matter from Left Lower Extremity Vein using Computer-aided Mechanical Aspiration, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
X2CY3T7	Extirpation of Matter from Great Vessel using Computer-aided Mechanical Aspiration, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
X2H13R9	Insertion of Intraluminal Device, Bioprosthetic Valve into Superior Vena Cava, Percutaneous Approach, New Technology Group 9	PX	ICD-10-PCS
X2H20R9	Insertion of Intraluminal Device, Bioprosthetic Valve into Right Femoral Vein, Open Approach, New Technology Group 9	PX	ICD-10-PCS
X2H30R9	Insertion of Intraluminal Device, Bioprosthetic Valve into Left Femoral Vein, Open Approach, New Technology Group 9	PX	ICD-10-PCS
X2H63V9	Insertion of Dual-Chamber Intracardiac Pacemaker into Right Atrium, Percutaneous Approach, New Technology Group 9	PX	ICD-10-PCS
X2HK3V9	Insertion of Dual-Chamber Intracardiac Pacemaker into Right Ventricle, Percutaneous Approach, New Technology Group 9	PX	ICD-10-PCS
X2HL0F9	Insertion of Conduit to Short-term External Heart Assist System into Right Axillary Artery, Open Approach, New Technology Group 9	PX	ICD-10-PCS
X2HM0F9	Insertion of Conduit to Short-term External Heart Assist System into Left Axillary Artery, Open Approach, New Technology Group 9	PX	ICD-10-PCS
X2HX0F9	Insertion of Conduit to Short-term External Heart Assist System into Thoracic Aorta, Ascending, Open Approach, New Technology Group 9	PX	ICD-10-PCS
X2KB317	Bypass Right Radial Artery using Thermal Resistance Energy, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
X2KC317	Bypass Left Radial Artery using Thermal Resistance Energy, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
X2KH3D9	Bypass Right Femoral Artery using Conduit through Femoral Vein to Superficial Femoral Artery, Percutaneous Approach, New Technology Group 9	PX	ICD-10-PCS
X2KH3E9	Bypass Right Femoral Artery using Conduit through Femoral Vein to Popliteal Artery, Percutaneous Approach, New Technology Group 9	PX	ICD-10-PCS
X2KJ3D9	Bypass Left Femoral Artery using Conduit through Femoral Vein to Superficial Femoral Artery, Percutaneous Approach, New Technology Group 9	PX	ICD-10-PCS
X2KJ3E9	Bypass Left Femoral Artery using Conduit through Femoral Vein to Popliteal Artery, Percutaneous Approach, New Technology Group 9	PX	ICD-10-PCS
X2R50WA	Replacement of Right Upper Extremity Artery using Bioengineered Human Acellular Vessel, Open Approach, New Technology Group 10	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
X2R60WA	Replacement of Left Upper Extremity Artery using Bioengineered Human Acellular Vessel, Open Approach, New Technology Group 10	PX	ICD-10-PCS
X2R70WA	Replacement of Right Lower Extremity Artery using Bioengineered Human Acellular Vessel, Open Approach, New Technology Group 10	PX	ICD-10-PCS
X2R80WA	Replacement of Left Lower Extremity Artery using Bioengineered Human Acellular Vessel, Open Approach, New Technology Group 10	PX	ICD-10-PCS
X2RF032	Replacement of Aortic Valve using Zooplastic Tissue, Rapid Deployment Technique, Open Approach, New Technology Group 2	PX	ICD-10-PCS
X2RF332	Replacement of Aortic Valve using Zooplastic Tissue, Rapid Deployment Technique, Percutaneous Approach, New Technology Group 2	PX	ICD-10-PCS
X2RF432	Replacement of Aortic Valve using Zooplastic Tissue, Rapid Deployment Technique, Percutaneous Endoscopic Approach, New Technology Group 2	PX	ICD-10-PCS
X2RJ3RA	Replacement of Tricuspid Valve with Multi-plane Flex Technology Bioprosthetic Valve, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
X2RX0N7	Replacement of Thoracic Aorta, Arch using Branched Synthetic Substitute with Intraluminal Device, Open Approach, New Technology Group 7	PX	ICD-10-PCS
X2U4079	Supplement Coronary Artery/Arteries with Vein Graft Extraluminal Support Device(s), Open Approach, New Technology Group 9	PX	ICD-10-PCS
X2UQ0P9	Supplement Right Upper Extremity Vein with Synthetic Substitute, Extraluminal Support Device, Open Approach, New Technology Group 9	PX	ICD-10-PCS
X2UR0P9	Supplement Left Upper Extremity Vein with Synthetic Substitute, Extraluminal Support Device, Open Approach, New Technology Group 9	PX	ICD-10-PCS
X2V73Q7	Restriction of Coronary Sinus with Reduction Device, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
X2VE3SA	Restriction of Descending Thoracic Aorta and Abdominal Aorta using Branched Intraluminal Device, Manufactured Integrated System, Four or More Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
X2VW0N7	Restriction of Thoracic Aorta, Descending using Branched Synthetic Substitute with Intraluminal Device, Open Approach, New Technology Group 7	PX	ICD-10-PCS
XHR0XGA	Replacement of Head and Neck Skin with Prademagene Zamikeracel, Genetically Engineered Autologous Cell Therapy, External Approach, New Technology Group 10	PX	ICD-10-PCS
XHR1XGA	Replacement of Chest Skin with Prademagene Zamikeracel, Genetically Engineered Autologous Cell Therapy, External Approach, New Technology Group 10	PX	ICD-10-PCS
XHR2XGA	Replacement of Abdomen Skin with Prademagene Zamikeracel, Genetically Engineered Autologous Cell Therapy, External Approach, New Technology Group 10	PX	ICD-10-PCS
XHR3XGA	Replacement of Back Skin with Prademagene Zamikeracel, Genetically Engineered Autologous Cell Therapy, External Approach, New Technology Group 10	PX	ICD-10-PCS
XHR4XGA	Replacement of Right Upper Extremity Skin with Prademagene Zamikeracel, Genetically Engineered Autologous Cell Therapy, External Approach, New Technology Group 10	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
XHR5XGA	Replacement of Left Upper Extremity Skin with Prademagene Zamikeracel, Genetically Engineered Autologous Cell Therapy, External Approach, New Technology Group 10	PX	ICD-10-PCS
XHR6XGA	Replacement of Right Lower Extremity Skin with Prademagene Zamikeracel, Genetically Engineered Autologous Cell Therapy, External Approach, New Technology Group 10	PX	ICD-10-PCS
XHR7XGA	Replacement of Left Lower Extremity Skin with Prademagene Zamikeracel, Genetically Engineered Autologous Cell Therapy, External Approach, New Technology Group 10	PX	ICD-10-PCS
XHRPXF7	Replacement of Skin with Bioengineered Allogeneic Construct, External Approach, New Technology Group 7	PX	ICD-10-PCS
XHRPXL2	Replacement of Skin using Porcine Liver Derived Skin Substitute, External Approach, New Technology Group 2	PX	ICD-10-PCS
XKUC068	Supplement Upper Spine Bursa and Ligament with Posterior Vertebral Tether, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XKUD068	Supplement Lower Spine Bursa and Ligament with Posterior Vertebral Tether, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XNH6058	Insertion of Internal Fixation Device with Tulip Connector into Right Pelvic Bone, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XNH6358	Insertion of Internal Fixation Device with Tulip Connector into Right Pelvic Bone, Percutaneous Approach, New Technology Group 8	PX	ICD-10-PCS
XNH7058	Insertion of Internal Fixation Device with Tulip Connector into Left Pelvic Bone, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XNH7358	Insertion of Internal Fixation Device with Tulip Connector into Left Pelvic Bone, Percutaneous Approach, New Technology Group 8	PX	ICD-10-PCS
XNHG0F9	Insertion of Tibial Extension with Motion Sensors into Right Tibia, Open Approach, New Technology Group 9	PX	ICD-10-PCS
XNHH0F9	Insertion of Tibial Extension with Motion Sensors into Left Tibia, Open Approach, New Technology Group 9	PX	ICD-10-PCS
XNR80D9	Replacement of Skull with Ultrasound Penetrable Synthetic Substitute, Open Approach, New Technology Group 9	PX	ICD-10-PCS
XNRL099	Replacement of Right Tarsal with Talar Prosthesis Synthetic Substitute, Open Approach, New Technology Group 9	PX	ICD-10-PCS
XNRM099	Replacement of Left Tarsal with Talar Prosthesis Synthetic Substitute, Open Approach, New Technology Group 9	PX	ICD-10-PCS
XNS0032	Reposition of Lumbar Vertebra using Magnetically Controlled Growth Rod(s), Open Approach, New Technology Group 2	PX	ICD-10-PCS
XNS00C7	Reposition of Lumbar Vertebra using Posterior (Dynamic) Distraction Device, Open Approach, New Technology Group 7	PX	ICD-10-PCS
XNS0332	Reposition of Lumbar Vertebra using Magnetically Controlled Growth Rod(s), Percutaneous Approach, New Technology Group 2	PX	ICD-10-PCS
XNS03C7	Reposition of Lumbar Vertebra using Posterior (Dynamic) Distraction Device, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
XNS0432	Reposition of Lumbar Vertebra using Magnetically Controlled Growth Rod(s), Percutaneous Endoscopic Approach, New Technology Group 2	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
XNS3032	Reposition of Cervical Vertebra using Magnetically Controlled Growth Rod(s), Open Approach, New Technology Group 2	PX	ICD-10-PCS
XNS3332	Reposition of Cervical Vertebra using Magnetically Controlled Growth Rod(s), Percutaneous Approach, New Technology Group 2	PX	ICD-10-PCS
XNS3432	Reposition of Cervical Vertebra using Magnetically Controlled Growth Rod(s), Percutaneous Endoscopic Approach, New Technology Group 2	PX	ICD-10-PCS
XNS4032	Reposition of Thoracic Vertebra using Magnetically Controlled Growth Rod(s), Open Approach, New Technology Group 2	PX	ICD-10-PCS
XNS40C7	Reposition of Thoracic Vertebra using Posterior (Dynamic) Distraction Device, Open Approach, New Technology Group 7	PX	ICD-10-PCS
XNS4332	Reposition of Thoracic Vertebra using Magnetically Controlled Growth Rod(s), Percutaneous Approach, New Technology Group 2	PX	ICD-10-PCS
XNS43C7	Reposition of Thoracic Vertebra using Posterior (Dynamic) Distraction Device, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
XNS4432	Reposition of Thoracic Vertebra using Magnetically Controlled Growth Rod(s), Percutaneous Endoscopic Approach, New Technology Group 2	PX	ICD-10-PCS
XNU0356	Supplement Lumbar Vertebra with Mechanically Expandable (Paired) Synthetic Substitute, Percutaneous Approach, New Technology Group 6	PX	ICD-10-PCS
XNU4356	Supplement Thoracic Vertebra with Mechanically Expandable (Paired) Synthetic Substitute, Percutaneous Approach, New Technology Group 6	PX	ICD-10-PCS
XRG0092	Fusion of Occipital-cervical Joint using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRG00F3	Fusion of Occipital-cervical Joint using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS
XRG1092	Fusion of Cervical Vertebral Joint using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRG10F3	Fusion of Cervical Vertebral Joint using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS
XRG2092	Fusion of 2 or more Cervical Vertebral Joints using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRG20F3	Fusion of 2 or more Cervical Vertebral Joints using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS
XRG4092	Fusion of Cervicothoracic Vertebral Joint using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRG40F3	Fusion of Cervicothoracic Vertebral Joint using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS
XRG6092	Fusion of Thoracic Vertebral Joint using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRG60F3	Fusion of Thoracic Vertebral Joint using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS
XRG7092	Fusion of 2 to 7 Thoracic Vertebral Joints using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRG70F3	Fusion of 2 to 7 Thoracic Vertebral Joints using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
XRG8092	Fusion of 8 or more Thoracic Vertebral Joints using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRG80F3	Fusion of 8 or more Thoracic Vertebral Joints using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS
XRGA092	Fusion of Thoracolumbar Vertebral Joint using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRGA0EA	Fusion of Thoracolumbar Vertebral Joint using Facet Joint Fusion Device, Paired Titanium Cages, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRGA0F3	Fusion of Thoracolumbar Vertebral Joint using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS
XRGA0R7	Fusion of Thoracolumbar Vertebral Joint using Customizable Interbody Fusion Device, Open Approach, New Technology Group 7	PX	ICD-10-PCS
XRGA3R7	Fusion of Thoracolumbar Vertebral Joint using Customizable Interbody Fusion Device, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
XRGA4R7	Fusion of Thoracolumbar Vertebral Joint using Customizable Interbody Fusion Device, Percutaneous Endoscopic Approach, New Technology Group 7	PX	ICD-10-PCS
XRGB092	Fusion of Lumbar Vertebral Joint using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRGB0EA	Fusion of Lumbar Vertebral Joint using Facet Joint Fusion Device, Paired Titanium Cages, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRGB0F3	Fusion of Lumbar Vertebral Joint using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS
XRGB0R7	Fusion of Lumbar Vertebral Joint using Customizable Interbody Fusion Device, Open Approach, New Technology Group 7	PX	ICD-10-PCS
XRGB3R7	Fusion of Lumbar Vertebral Joint using Customizable Interbody Fusion Device, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
XRGB4R7	Fusion of Lumbar Vertebral Joint using Customizable Interbody Fusion Device, Percutaneous Endoscopic Approach, New Technology Group 7	PX	ICD-10-PCS
XRGC092	Fusion of 2 or more Lumbar Vertebral Joints using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRGC0EA	Fusion of 2 or more Lumbar Vertebral Joints using Facet Joint Fusion Device, Paired Titanium Cages, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRGC0F3	Fusion of 2 or more Lumbar Vertebral Joints using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS
XRGC0R7	Fusion of 2 or more Lumbar Vertebral Joints using Customizable Interbody Fusion Device, Open Approach, New Technology Group 7	PX	ICD-10-PCS
XRGC3R7	Fusion of 2 or more Lumbar Vertebral Joints using Customizable Interbody Fusion Device, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
XRGC4R7	Fusion of 2 or more Lumbar Vertebral Joints using Customizable Interbody Fusion Device, Percutaneous Endoscopic Approach, New Technology Group 7	PX	ICD-10-PCS
XRGD092	Fusion of Lumbosacral Joint using Nanotextured Surface Interbody Fusion Device, Open Approach, New Technology Group 2	PX	ICD-10-PCS
XRGD0EA	Fusion of Lumbosacral Joint using Facet Joint Fusion Device, Paired Titanium Cages, Open Approach, New Technology Group 10	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
XRGD0F3	Fusion of Lumbosacral Joint using Radiolucent Porous Interbody Fusion Device, Open Approach, New Technology Group 3	PX	ICD-10-PCS
XRGD0R7	Fusion of Lumbosacral Joint using Customizable Interbody Fusion Device, Open Approach, New Technology Group 7	PX	ICD-10-PCS
XRGD3R7	Fusion of Lumbosacral Joint using Customizable Interbody Fusion Device, Percutaneous Approach, New Technology Group 7	PX	ICD-10-PCS
XRGD4R7	Fusion of Lumbosacral Joint using Customizable Interbody Fusion Device, Percutaneous Endoscopic Approach, New Technology Group 7	PX	ICD-10-PCS
XRGE058	Fusion of Right Sacroiliac Joint using Internal Fixation Device with Tulip Connector, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XRGE358	Fusion of Right Sacroiliac Joint using Internal Fixation Device with Tulip Connector, Percutaneous Approach, New Technology Group 8	PX	ICD-10-PCS
XRGF058	Fusion of Left Sacroiliac Joint using Internal Fixation Device with Tulip Connector, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XRGF358	Fusion of Left Sacroiliac Joint using Internal Fixation Device with Tulip Connector, Percutaneous Approach, New Technology Group 8	PX	ICD-10-PCS
XRGJ0B9	Fusion of Right Ankle Joint using Open-truss Design Internal Fixation Device, Open Approach, New Technology Group 9	PX	ICD-10-PCS
XRGJ0CA	Fusion of Right Ankle Joint using Gyroid-Sheet Lattice Design Internal Fixation Device, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRGK0B9	Fusion of Left Ankle Joint using Open-truss Design Internal Fixation Device, Open Approach, New Technology Group 9	PX	ICD-10-PCS
XRGK0CA	Fusion of Left Ankle Joint using Gyroid-Sheet Lattice Design Internal Fixation Device, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRGL0B9	Fusion of Right Tarsal Joint using Open-truss Design Internal Fixation Device, Open Approach, New Technology Group 9	PX	ICD-10-PCS
XRGL0CA	Fusion of Right Tarsal Joint using Gyroid-Sheet Lattice Design Internal Fixation Device, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRGM0B9	Fusion of Left Tarsal Joint using Open-truss Design Internal Fixation Device, Open Approach, New Technology Group 9	PX	ICD-10-PCS
XRGM0CA	Fusion of Left Tarsal Joint using Gyroid-Sheet Lattice Design Internal Fixation Device, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRH60FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Thoracic Vertebral Joint, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRH63FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Thoracic Vertebral Joint, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XRH64FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Thoracic Vertebral Joint, Percutaneous Endoscopic Approach, New Technology Group 10	PX	ICD-10-PCS
XRH70FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into 2 to 7 Thoracic Vertebral Joints, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRH73FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into 2 to 7 Thoracic Vertebral Joints, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XRH74FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into 2 to 7 Thoracic Vertebral Joints, Percutaneous Endoscopic Approach, New Technology Group 10	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
XRH80FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into 8 or more Thoracic Vertebral Joints, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRH83FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into 8 or more Thoracic Vertebral Joints, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XRH84FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into 8 or more Thoracic Vertebral Joints, Percutaneous Endoscopic Approach, New Technology Group 10	PX	ICD-10-PCS
XRHA0FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRHA3FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XRHA4FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Thoracolumbar Vertebral Joint, Percutaneous Endoscopic Approach, New Technology Group 10	PX	ICD-10-PCS
XRHB018	Insertion of Posterior Spinal Motion Preservation Device into Lumbar Vertebral Joint, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XRHB0FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Lumbar Vertebral Joint, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRHB3FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Lumbar Vertebral Joint, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XRHB4FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Lumbar Vertebral Joint, Percutaneous Endoscopic Approach, New Technology Group 10	PX	ICD-10-PCS
XRHC0FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into 2 or more Lumbar Vertebral Joints, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRHC3FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into 2 or more Lumbar Vertebral Joints, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XRHC4FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into 2 or more Lumbar Vertebral Joints, Percutaneous Endoscopic Approach, New Technology Group 10	PX	ICD-10-PCS
XRHD018	Insertion of Posterior Spinal Motion Preservation Device into Lumbosacral Joint, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XRHD0FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Lumbosacral Joint, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XRHD3FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Lumbosacral Joint, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XRHD4FA	Insertion of Pedicle Based Carbon/PEEK Spinal Stabilization Device into Lumbosacral Joint, Percutaneous Endoscopic Approach, New Technology Group 10	PX	ICD-10-PCS
XRRG0L8	Replacement of Right Knee Joint with Synthetic Substitute, Lateral Meniscus, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XRRG0M8	Replacement of Right Knee Joint with Synthetic Substitute, Medial Meniscus, Open Approach, New Technology Group 8	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
XRRH0L8	Replacement of Left Knee Joint with Synthetic Substitute, Lateral Meniscus, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XRRH0M8	Replacement of Left Knee Joint with Synthetic Substitute, Medial Meniscus, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XV508A4	Destruction of Prostate using Robotic Waterjet Ablation, Via Natural or Artificial Opening Endoscopic, New Technology Group 4	PX	ICD-10-PCS
XW020D8	Introduction of Engineered Allogeneic Thymus Tissue into Muscle, Open Approach, New Technology Group 8	PX	ICD-10-PCS
XW0J3HA	Introduction of Paclitaxel-Coated Balloon Technology, One Balloon into Coronary Artery, One Artery, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0J3JA	Introduction of Paclitaxel-Coated Balloon Technology, Two Balloons into Coronary Artery, One Artery, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0J3KA	Introduction of Paclitaxel-Coated Balloon Technology, Three Balloons into Coronary Artery, One Artery, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0J3LA	Introduction of Paclitaxel-Coated Balloon Technology, Four or More Balloons into Coronary Artery, One Artery, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0K3HA	Introduction of Paclitaxel-Coated Balloon Technology, One Balloon into Coronary Artery, Two Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0K3JA	Introduction of Paclitaxel-Coated Balloon Technology, Two Balloons into Coronary Artery, Two Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0K3KA	Introduction of Paclitaxel-Coated Balloon Technology, Three Balloons into Coronary Artery, Two Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0K3LA	Introduction of Paclitaxel-Coated Balloon Technology, Four or More Balloons into Coronary Artery, Two Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0L3HA	Introduction of Paclitaxel-Coated Balloon Technology, One Balloon into Coronary Artery, Three Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0L3JA	Introduction of Paclitaxel-Coated Balloon Technology, Two Balloons into Coronary Artery, Three Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0L3KA	Introduction of Paclitaxel-Coated Balloon Technology, Three Balloons into Coronary Artery, Three Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0L3LA	Introduction of Paclitaxel-Coated Balloon Technology, Four or More Balloons into Coronary Artery, Three Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
XW0M3HA	Introduction of Paclitaxel-Coated Balloon Technology, One Balloon into Coronary Artery, Four or More Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0M3JA	Introduction of Paclitaxel-Coated Balloon Technology, Two Balloons into Coronary Artery, Four or More Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0M3KA	Introduction of Paclitaxel-Coated Balloon Technology, Three Balloons into Coronary Artery, Four or More Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0M3LA	Introduction of Paclitaxel-Coated Balloon Technology, Four or More Balloons into Coronary Artery, Four or More Arteries, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
XW0U0GA	Introduction of Vancomycin Hydrochloride and Tobramycin Sulfate Anti-Infective, Temporary Irrigation Spacer System into Joints, Open Approach, New Technology Group 10	PX	ICD-10-PCS
XW0V0P7	Introduction of Antibiotic-eluting Bone Void Filler into Bones, Open Approach, New Technology Group 7	PX	ICD-10-PCS
XW0V3WA	Introduction of AGN1 Bone Void Filler into Bones, Percutaneous Approach, New Technology Group 10	PX	ICD-10-PCS
	Sympathomimetics/Alpha-1 Agonists		
80324	Amphetamines; 1 or 2	PX	CPT-4
80325	Amphetamines; 3 or 4	PX	CPT-4
80326	Amphetamines; 5 or more	PX	CPT-4
80359	Methylenedioxyamphetamines (MDA, MDEA, MDMA)	PX	CPT-4
80360	Methylphenidate	PX	CPT-4
82145	Amphetamine or methamphetamine	PX	CPT-4
82660	Drug Screen (amphetamines, Barbiturates, Alkaloids)	PX	CPT-4
G6042	Assay of amphetamine or methamphetamine	PX	HCPCS
J0165	Injection, epinephrine, not otherwise specified, 0.1 mg	PX	HCPCS
J0166	Injection, epinephrine (BPI), not therapeutically equivalent to J0165, 0.1 mg	PX	HCPCS
J0167	Injection, epinephrine (Hospira), not therapeutically equivalent to J0165, 0.1 mg	PX	HCPCS
J0168	Injection, epinephrine (International Medication Systems), not therapeutically equivalent to J0165, 0.1 mg	PX	HCPCS
J0169	Injection, epinephrine (adrenalin), not therapeutically equivalent to J0165, 0.1 mg	PX	HCPCS
J0170	Injection, adrenalin, epinephrine, up to 1 ml ampule	PX	HCPCS
J0171	Injection, adrenalin, epinephrine, 0.1 mg	PX	HCPCS
J0173	Injection, epinephrine (Belcher), not therapeutically equivalent to J0171, 0.1 mg	PX	HCPCS
J0590	Injection, ethylnorepinephrine hcl, 1 ml	PX	HCPCS
J1265	Injection, dopamine HCl, 40 mg	PX	HCPCS
J2004	Injection, lidocaine HCl with epinephrine, 1 mg	PX	HCPCS
J2370	Injection, phenylephrine HCl, up to 1 ml	PX	HCPCS
J2371	Injection, phenylephrine HCl, 20 mcg	PX	HCPCS
J2372	Injection, phenylephrine HCl (Biorphen), 20 mcg	PX	HCPCS
J2373	Injection, phenylephrine HCl (Immphentiv), 20 mcg	PX	HCPCS

Appendix I. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Current Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Q4076	Injection, dopamine HCl, 40 mg	PX	HCPCS
S0160	Dextroamphetamine sulfate, 5 mg	PX	HCPCS
	Ergot Derivatives and Methysergide		
J1110	Injection, dihydroergotamine mesylate, per 1 mg	PX	HCPCS
J2210	Injection, methylergonovine maleate, up to 0.2 mg	PX	HCPCS
J8515	Cabergoline, oral, 0.25 mg	PX	HCPCS
Q2001	Oral, cabergoline, 0.5 mg	PX	HCPCS
	Triptans/Ditans		
J3030	Injection, sumatriptan succinate, 6 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	PX	HCPCS
	Antihypertensives		
80416	Renal vein renin stimulation panel (eg, captopril) This panel must include the following: Renin (84244 x 6)	PX	CPT-4
80417	Peripheral vein renin stimulation panel (eg, captopril) This panel must include the following: Renin (84244 x 2)	PX	CPT-4
HZ86	Medication Management / Clonidine	PX	ICD-10-PCS
HZ86ZZZ	Medication Management for Substance Abuse Treatment, Clonidine	PX	ICD-10-PCS
HZ96	Pharmacotherapy / Clonidine	PX	ICD-10-PCS
HZ96ZZZ	Pharmacotherapy for Substance Abuse Treatment, Clonidine	PX	ICD-10-PCS
J0210	Injection, methyldopate HCl, up to 250 mg	PX	HCPCS
J0360	Injection, hydralazine HCl, up to 20 mg	PX	HCPCS
J0735	Injection, clonidine HCl, 1 mg	PX	HCPCS
J2440	Injection, papaverine HCl, up to 60 mg	PX	HCPCS
S0139	Minoxidil, 10 mg	PX	HCPCS

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
Substance Use Disorder	
buprenorphine	Brixadi
buprenorphine	Sublocade
buprenorphine	buprenorphine
buprenorphine HCl	Probuphine
buprenorphine HCl	buprenorphine HCl
buprenorphine HCl/naloxone HCl	Bunavail
buprenorphine HCl/naloxone HCl	Suboxone
buprenorphine HCl/naloxone HCl	Zubsolv
buprenorphine HCl/naloxone HCl	buprenorphine-naloxone
naltrexone HCl	Lotrexone
naltrexone HCl	Naltrex
naltrexone HCl	naltrexone
naltrexone microspheres	Vivitrol
Sympathomimetics/Alpha-1 Agonists	
LIDOCAINE HCL/EPINEPHRINE BITARTRATE/TETRACAINE HCL	LETS Kit
amphetamine	Adzenys ER
amphetamine	Adzenys XR-ODT
amphetamine	Dyanavel XR
amphetamine	amphetamine
amphetamine sulfate	Evekeo
amphetamine sulfate	Evekeo ODT
amphetamine sulfate	amphetamine sulfate
apraclonidine HCl	Iopidine
apraclonidine HCl	apraclonidine
articaine HCl/epinephrine bitartrate	Articadent Dental
articaine HCl/epinephrine bitartrate	articaine-epinephrine bitart
brimonidine tartrate	Alphagan P
brimonidine tartrate	Dazomon
brimonidine tartrate	Lumify
brimonidine tartrate	Mirvaso
brimonidine tartrate	Remyda
brimonidine tartrate	brimonidine
brimonidine tartrate/PF	Lumify (PF)
brimonidine tartrate/dorzolamide HCl	brimonidine-dorzolamide
brimonidine tartrate/dorzolamide HCl/PF	brimonidine-dorzolamide (PF)
brimonidine tartrate/dorzolamide HCl/bimatoprost	brimonidine-dorzol-bimatoprost
brimonidine tartrate/ivermectin/metronidazole/niacinamide	Dazaveidaoxia
brimonidine tartrate/ivermectin/metronidazole/niacinamide	Rovis
brimonidine tartrate/timolol maleate	Combigan
brimonidine tartrate/timolol maleate	brimonidine-timolol
brinzolamide/brimonidine tartrate	Simbrinza
brompheniramine maleate/phenylephrine HCl	Brohist D
brompheniramine maleate/phenylephrine HCl	Child Triaminic Cold-Allergy
brompheniramine maleate/phenylephrine HCl	Children's Cold-Allergy (PE)
brompheniramine maleate/phenylephrine HCl	Children's Dibromm Cold-Allerg
brompheniramine maleate/phenylephrine HCl	Cold and Allergy (bromphen-PE)
brompheniramine maleate/phenylephrine HCl	Dimaphen (PE)

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
brompheniramine maleate/phenylephrine HCl	Dimetapp Cold-Allergy(brom-PE)
brompheniramine maleate/phenylephrine HCl	Glenmax PEB
brompheniramine maleate/phenylephrine HCl	Maxi-Tuss PE
brompheniramine maleate/phenylephrine HCl	Relhist BP
brompheniramine maleate/phenylephrine HCl	Ru-Hist D
brompheniramine maleate/phenylephrine HCl	Rynex PE
brompheniramine maleate/phenylephrine HCl	Vazobid-PD
brompheniramine maleate/phenylephrine HCl/chlophedianol HCl	Trexbrom
brompheniramine maleate/phenylephrine HCl/codeine phosphate	M-END PE
brompheniramine maleate/phenylephrine HCl/codeine phosphate	Poly-Tussin AC
brompheniramine maleate/phenylephrine HCl/dextromethorphan	AP-Hist DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Altipres-B
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Children's Cold and Cough (PE)
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Children's Cold and Cough DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Children's Dibromm DM Cold-Cou
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Cold and Cough DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Cold and Cough Elixir
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Dimaphen DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Dimetapp DM Cold-Cough (PE)
brompheniramine maleate/phenylephrine HCl/dextromethorphan	EndaCof - DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Glenmax PEB DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Glenmax PEB DM Forte
brompheniramine maleate/phenylephrine HCl/dextromethorphan	LoHist-DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	M-Hist DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Niva-Hist DM
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Presgen B
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Rynex DM

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
brompheniramine maleate/phenylephrine HCl/dextromethorphan	Tussi Pres-B
brompheniramine maleate/pseudoephedrine HCl	Brotapp
brompheniramine maleate/pseudoephedrine HCl	Lodrane D
brompheniramine maleate/pseudoephedrine HCl	Rynex PSE
brompheniramine maleate/pseudoephedrine HCl/chlophedianol	Atuss DA
brompheniramine maleate/pseudoephedrine HCl/chlophedianol	Y-Tuss
brompheniramine maleate/pseudoephedrine HCl/codeine phosphat	Mar-Cof BP
brompheniramine maleate/pseudoephedrine HCl/codeine phosphat	Rydex
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromfed DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Brotapp DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	brompheniramine-pseudoeph-DM
bupivacaine HCl/epinephrine	Marcaine-Epinephrine
bupivacaine HCl/epinephrine	Sensorcaine-Epinephrine
bupivacaine HCl/epinephrine	bupivacaine-epinephrine
bupivacaine HCl/epinephrine bitartrate	bupivacaine-epinephrine bitart
bupivacaine HCl/epinephrine/PF	Marcaine-Epinephrine (PF)
bupivacaine HCl/epinephrine/PF	Sensorcaine-MPF/Epinephrine
bupivacaine HCl/epinephrine/PF	bupivacaine-epinephrine (PF)
bupivacaine/dexamethasone/epinephrine in sodium chloride iso	bupiv-dexamet-epi in sod chlor
cetirizine HCl/pseudoephedrine HCl	All Day Allergy-D
cetirizine HCl/pseudoephedrine HCl	Aller-Tec D
cetirizine HCl/pseudoephedrine HCl	Allergy Complete-D
cetirizine HCl/pseudoephedrine HCl	Allergy D-12
cetirizine HCl/pseudoephedrine HCl	Allergy Relief-D (cetirizine)
cetirizine HCl/pseudoephedrine HCl	Zyrtec-D
cetirizine HCl/pseudoephedrine HCl	cetirizine-pseudoephedrine
chlorcyclizine HCl/pseudoephedrine HCl	Stahist AD
chlorpheniramine maleate/phenylephrine HCl	Actidom DA
chlorpheniramine maleate/phenylephrine HCl	Allerfed Cold and Allergy
chlorpheniramine maleate/phenylephrine HCl	Child Dometuss-DA
chlorpheniramine maleate/phenylephrine HCl	Cold and Allergy
chlorpheniramine maleate/phenylephrine HCl	Dallergy (chlorpheniramine-PE)
chlorpheniramine maleate/phenylephrine HCl	Ed A-Hist
chlorpheniramine maleate/phenylephrine HCl	Ed Chlorped D
chlorpheniramine maleate/phenylephrine HCl	ExaPhen
chlorpheniramine maleate/phenylephrine HCl	Giltuss-D Allergy-Congestion
chlorpheniramine maleate/phenylephrine HCl	NoHist-LQ
chlorpheniramine maleate/phenylephrine HCl	Phenagil
chlorpheniramine maleate/phenylephrine HCl	Sinus and Allergy PE

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
chlorpheniramine maleate/phenylephrine HCl	Sinus-Allergy (phenylephrine)
chlorpheniramine maleate/phenylephrine HCl	Suphedrine PE Sinus andAllergy
chlorpheniramine maleate/phenylephrine HCl/chlophedianol HCl	Carbaphen CH
chlorpheniramine maleate/phenylephrine HCl/chlophedianol HCl	ExaPhen CH
chlorpheniramine maleate/phenylephrine HCl/chlophedianol HCl	Giltuss Allergy Plus(chlophed)
chlorpheniramine maleate/phenylephrine HCl/chlophedianol HCl	Phenagil CH (cpm-pe-chlophedl)
chlorpheniramine maleate/phenylephrine HCl/codeine phosphate	CapCof
chlorpheniramine maleate/phenylephrine HCl/codeine phosphate	Maxi-Tuss CD
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Balamine DM (chlor-PE)
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Child Giltuss Allergy Plus(dm)
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Dometuss-NR
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Donatussin
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Ed A-Hist DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Gencontuss
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Giltuss Allergy Plus (dm)
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Maxichlor PEH DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	NoHist-DM
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Phenagil CH (cpm-pe-dm)
chlorpheniramine maleate/phenylephrine HCl/dextromethorphan	Rycontuss
chlorpheniramine maleate/phenylephrine HCl/ibuprofen	Advil Allergy-Congestion Rlf
chlorpheniramine maleate/phenylephrine bitartrate/aspirin	Cold Relief
chlorpheniramine maleate/phenylephrine bitartrate/aspirin	Cold Relief Plus
chlorpheniramine maleate/pseudoephedrine HCl	LoHist - D
chlorpheniramine maleate/pseudoephedrine HCl	SudoGest Cold and Allergy
chlorpheniramine maleate/pseudoephedrine HCl	SudoGest Sinus and Allergy
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 25
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 30
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 35
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 40
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 50
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 60

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 80
chlorpheniramine maleate/pseudoephedrine HCl/ibuprofen	Advil Allergy Sinus
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Kidkare Cough/Cold
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Pedia Relief Cough-Cold
chlorpheniramine maleate/pseudoephedrine/dextromethorphan	Rescon-DM
cyclopentolate HCl/phenylephrine HCl	Cyclomydril
cyclopentolate HCl/tropicamide/phenylephrine HCl in water	Mydriatic3 (trop-cyclopent-PE)
cyclopentolate HCl/tropicamide/phenylephrine HCl in water	cyclopen-tropic-phenyleph-watr
cyclopentolate/tropicamide/phenylephrine/ketorolac in water	cyclopent-tropic-phen-ketr-wat
desloratadine/pseudoephedrine sulfate	Clarinex-D 12 HOUR
dexbromphen-pseudoephedrine-dextromethorphan	M-End DMX
dexbrompheniramine maleate/phenylephrine HCl	Ala-Hist PE
dexbrompheniramine maleate/phenylephrine HCl	Alahist PE
dexbrompheniramine maleate/phenylephrine HCl	Dallergy (dexbrompheniramn-PE)
dexbrompheniramine maleate/phenylephrine HCl	dexbrompheniramine-phenyleph
dexbrompheniramine maleate/pseudoephedrine HCl	Acticon (dexbromph-pse)
dexbrompheniramine maleate/pseudoephedrine HCl	Conex
dexbrompheniramine maleate/pseudoephedrine HCl	Conex Pediatric
dexbrompheniramine maleate/pseudoephedrine HCl	Durahist (dexbromph-pse)
dexbrompheniramine maleate/pseudoephedrine HCl/chlophedianol	Chlo Tuss
dexchlorpheniramine maleate/phenylephrine HCl	Rymed (dexchlorpheniramine-PE)
dexchlorpheniramine maleate/phenylephrine HCl	Stahist (dexchlorpheniramine)
dexchlorpheniramine maleate/phenylephrine HCl/codeine	Pro-Red AC (w/ dexchlorphenir)
dexchlorpheniramine maleate/phenylephrine/dextromethorphan	Polytussin DM(dexchlorphenrmn)
dexchlorpheniramine maleate/phenylephrine/dextromethorphan	WesTussin DM (dexchlorphenir)
dexchlorpheniramine maleate/pseudoephedrine HCl	Deltuss DP
dexchlorpheniramine maleate/pseudoephedrine HCl	Rescon
dexchlorpheniramine maleate/pseudoephedrine/chlophedianol	Abanatuss PED
dexchlorpheniramine maleate/pseudoephedrine/chlophedianol	Panatuss PED
dexchlorpheniramine maleate/pseudoephedrine/chlophedianol	Panatuss PED Drops
dexchlorpheniramine maleate/pseudoephedrine/chlophedianol	Vanacof
dexchlorpheniramine maleate/pseudoephedrine/chlophedianol	dexchlorphen-PSE-chlophedianol
dexmethylphenidate HCl	Focalin
dexmethylphenidate HCl	Focalin XR
dexmethylphenidate HCl	dexmethylphenidate
dextroamphetamine	Xelstrym

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
dextroamphetamine sulf-saccharate/amphetamine sulf-aspartate	Adderall
dextroamphetamine sulf-saccharate/amphetamine sulf-aspartate	Adderall XR
dextroamphetamine sulf-saccharate/amphetamine sulf-aspartate	Mydayis
dextroamphetamine sulf-saccharate/amphetamine sulf-aspartate	dextroamphetamine-amphetamine
dextroamphetamine sulfate	Dexedrine Spansule
dextroamphetamine sulfate	ProCentra
dextroamphetamine sulfate	Zenzedi
dextroamphetamine sulfate	dextroamphetamine sulfate
dextromethorphan HBr/phenylephrine HCl	Children's Cold-Cough Daytime
dextromethorphan HBr/phenylephrine HCl	Children's Sudafed PE Cough
dextromethorphan HBr/phenylephrine HCl	Maxi-Tuss Jr
dextromethorphan HBr/phenylephrine HCl	Triaminic Cold and Cough (PE)
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Cold Head Congestion Daytime
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Cold Max Daytime
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Cold Multi-Symptom
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Day Multi-Symp Flu-Severe Cold
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Day Time PE
dextromethorphan HBr/phenylephrine HCl/acetaminophen	DayTime
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Daytime Cold
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Daytime Cold-Flu
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Daytime Cold-Flu Relief (PE)
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Flu-Severe Cold-Cough Daytime
dextromethorphan HBr/phenylephrine HCl/acetaminophen	HerbioMed Body Aches-Sinus M-S
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Mapap Cold Formula
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Mucinex Fast-Max Cong-HA (DM)
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Mucinex Sinus-Max Cng-Pain(DM)
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Severe Cold and Flu-Day (DM)
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Sudafed PE Pressure-Pain-Cough
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Theraflu ExpressMax Cold Day
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Theraflu Multi-Symptom Cold
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Tylenol Cold Max Day
dextromethorphan HBr/phenylephrine HCl/acetaminophen	Vicks DayQuil Cold-Flu Relief
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Alahist CF
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Alahist DM (dexbromphen-PE-DM)
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	BranTussin DM
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	G-P-Tuss DXP
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Polytussin DM(dexbromphenirmn)
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	Supress A

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	WesTussin DM NF
dextromethorphan HBr/phenylephrine HCl/dexbrompheniramine	dexbrompheniramine-phenylep-DM
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Cold Multi-Symptom NightTime
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Daytime-Nighttime
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Daytime-Nighttime Cold-Flu
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Mucinex Fast-Max Nite (doxyl)
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Nite Time Cold-Flu Relief (PE)
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Severe Cold and Flu Nighttime
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Tylenol Cold Max Night
dextromethorphan HBr/phenylephrine/acetaminophen/doxylamine	Vicks NyQuil Severe Cold-Flu
dextromethorphan HBr/pseudoephedrine HCl/acetaminophen	Daytime Cold and Flu Relief
dextromethorphan HBr/pseudoephedrine HCl/acetaminophen	Non-Aspirin Flu
dextromethorphan HBr/pseudoephedrine HCl/acetaminophen	Tylenol Cold-Flu Multi-Act Day
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Child Giltuss MultSym Cold-Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Child Triaminic MS Fever-Cold
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Children's Cold And Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Children's Flu Relief
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Children's Tylenol Cold-Flu
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Childrens Plus Multi-Symp Cold
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Head Congestion Day/Nite
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Head Congestion Nighttime
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Max Day-Night
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Multi-Symptom (chlorphen)
dextromethorphan/phenylephrine/acetaminophen/chlorpheniramin	Cold Multi-Symptom Day/Night

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
dextromethorphan/phenylephrine/acetaminophen/chlorphenira min	Cold Relief M/S Day/Night
dextromethorphan/phenylephrine/acetaminophen/chlorphenira min	Giltuss Multi-Symptom Cold-Flu
dextromethorphan/phenylephrine/acetaminophen/diphenhydra mine	Day-Night Severe Cold-Flu
dextromethorphan/phenylephrine/acetaminophen/diphenhydra mine	HerbioMed Deep Cold-Flu Night
dextromethorphan/phenylephrine/acetaminophen/diphenhydra mine	Multi-Symptom Severe Cold-Nt
dextromethorphan/pseudoephedrine/acetaminophen/chlorphen iram	Tylenol Cold-Flu Multi-Act D-N
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Allergy Plus Severe Sinus HA
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Allergy Sinus Headache (PE)
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Allergy and Cold PE
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Child Delsym Cough-Cold
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Child Mucinex M-S Cold Night
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Children's Mucinex Night Time
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Cough and Severe Cold
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Delsym Cough-Cold NightTime
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Flu Relief Therapy Nighttime
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Flu Severe Cold-Night(diph-pe)
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Flu-Severe Cold-Cough Night
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Herbiomed Allergy Cold-Sinus
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Mucinex Fast-Max Nite Cold-Flu
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Mucinex Sinus-Max Nite Congest
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Severe Allergy-Sinus Headache
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Severe Cold Cough-Flu
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Severe Cold PE
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Theraflu ExpressMax Cold Night
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Theraflu Night Severe Cold-Cgh
diphenhydramine HCl/phenylephrine HCl/acetaminophen	Theraflu Nighttime PowerPod
diphenhydramine HCl/phenylephrine/acetaminophen/guaifenesin	Mucinex Sinus-Max D-N (diphen)
diphenhydramine HCl/phenylephrine/acetaminophen/guaifenesin	Sinus Relief Max Str Day-Night
dopamine HCl	dopamine
dopamine HCl in dextrose 5 % in water	dopamine in 5 % dextrose
doxylamine succ/pseudoephedrine HCl/dextromethorphan Hbr	Glentuss
doxylamine succ/pseudoephedrine HCl/dextromethorphan Hbr	Lortuss DM
doxylamine succinate/phenylephrine HCl	Poly Hist Forte
doxylamine succinate/phenylephrine HCl	Poly Hist Forte (doxylamine)
doxylamine succinate/phenylephrine HCl	doxylamine-phenylephrine
doxylamine succinate/pseudoephedrine HCl	Lortuss LQ
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Mucinex Fast-Max Day-Nt(doxyl)

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Mucinex Sinus-Max Dy-Nt (dxyl)
doxylamine/phenylephrine/dextromethorphan/acetaminophen/GG	Tylenol Cold-Flu-Cough Dy-Nt
ephedrine HCl	Rezipres
ephedrine sulfate	Akovaz
ephedrine sulfate	Asthma Relief
ephedrine sulfate	Bronkaid Max
ephedrine sulfate	Emerphed
ephedrine sulfate	ephedrine sulfate
ephedrine sulfate in 0.9 % sodium chloride	ephedrine sulfate-0.9% sodchlr
ephedrine sulfate in 0.9 % sodium chloride/PF	ephedrine sulfate-0.9%NaCl(PF)
ephedrine sulfate in sterile water for injection/PF	ephedrine sulfate in water(PF)
ephedrine sulfate/PF	ephedrine sulfate (PF)
ephedrine sulfate/guaifenesin	Bronkaid Dual Action
epinephrine	Adrenalin
epinephrine	Adyphren
epinephrine	Adyphren Amp
epinephrine	Adyphren Amp II
epinephrine	Adyphren II
epinephrine	Auvi-Q
epinephrine	Bronchial Mist
epinephrine	Bronchial Mist Refill
epinephrine	EpiPen
epinephrine	EpiPen 2-Pak
epinephrine	EpiPen Jr
epinephrine	EpiPen Jr 2-Pak
epinephrine	EpinephrineSnap
epinephrine	EpinephrineSnap-EMS
epinephrine	EpinephrineSnap-V
epinephrine	Symjepi
epinephrine	epinephrine
epinephrine	neffy
epinephrine HCl	Adrenalin
epinephrine HCl	epinephrine HCl
epinephrine HCl in 0.9 % sodium chloride	epinephrine HCl in 0.9 % NaCl
epinephrine HCl in 0.9 % sodium chloride/PF	epinephrine HCl-0.9% NaCl (PF)
epinephrine HCl in dextrose 5 % in water	epinephrine HCl in 5% dextrose
epinephrine HCl in sodium chloride, iso-osmotic/PF	epinephrine in sod chl,iso(PF)
epinephrine HCl/PF	epinephrine HCl (PF)
epinephrine bitartrate in 0.9 % sodium chloride	epineph bitart in 0.9% sod chl
epinephrine bitartrate in sodium chloride, iso-osmotic	epinephrine bitart in NaCl,iso
epinephrine in 0.9 % sodium chloride	Adrenalin in 0.9 % sod chlor
epinephrine in 0.9 % sodium chloride	epinephrine in 0.9 % sod chlor
epinephrine in sodium chloride, iso-osmotic	epinephrine in sod chlor,iso
fexofenadine HCl/pseudoephedrine HCl	24HR Allergy-Congestion Relief
fexofenadine HCl/pseudoephedrine HCl	Allegra-D 12 Hour
fexofenadine HCl/pseudoephedrine HCl	Allergy Relief-D(fexofenadine)

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
fexofenadine HCl/pseudoephedrine HCl	Allergy-Congest Relief-D(fexo)
fexofenadine HCl/pseudoephedrine HCl	fexofenadine-pseudoephedrine
guaifenesin/dextromethorphan HBr/phenylephrine	Actidom DMX
guaifenesin/dextromethorphan HBr/phenylephrine	Actinel DM
guaifenesin/dextromethorphan HBr/phenylephrine	Adult Robitussin Peak Cold M-S
guaifenesin/dextromethorphan HBr/phenylephrine	Adult Tussin CF
guaifenesin/dextromethorphan HBr/phenylephrine	Adult Tussin Multi-Symp Cold
guaifenesin/dextromethorphan HBr/phenylephrine	Altipres
guaifenesin/dextromethorphan HBr/phenylephrine	Altipres Pediatric
guaifenesin/dextromethorphan HBr/phenylephrine	Aquanaz
guaifenesin/dextromethorphan HBr/phenylephrine	Broncotron PED
guaifenesin/dextromethorphan HBr/phenylephrine	Child Mucinex Congestion-Cough
guaifenesin/dextromethorphan HBr/phenylephrine	Child Mucinex Cough-Congest
guaifenesin/dextromethorphan HBr/phenylephrine	Child's Mucus Relief M-S Cold
guaifenesin/dextromethorphan HBr/phenylephrine	Children's Mucinex Multi-Symp
guaifenesin/dextromethorphan HBr/phenylephrine	Children's Multi-Symptom Cold
guaifenesin/dextromethorphan HBr/phenylephrine	Childrens Giltuss Cough-Cold
guaifenesin/dextromethorphan HBr/phenylephrine	Deconex DMX
guaifenesin/dextromethorphan HBr/phenylephrine	Desgen
guaifenesin/dextromethorphan HBr/phenylephrine	Desgen DM
guaifenesin/dextromethorphan HBr/phenylephrine	Dometuss-DMX
guaifenesin/dextromethorphan HBr/phenylephrine	Duravent DM
guaifenesin/dextromethorphan HBr/phenylephrine	Exactuss TR
guaifenesin/dextromethorphan HBr/phenylephrine	G-Supress DX
guaifenesin/dextromethorphan HBr/phenylephrine	G-Tron PED
guaifenesin/dextromethorphan HBr/phenylephrine	G-Tusicof
guaifenesin/dextromethorphan HBr/phenylephrine	Giltuss Cough-Cold
guaifenesin/dextromethorphan HBr/phenylephrine	Giltuss TR
guaifenesin/dextromethorphan HBr/phenylephrine	Igualtuss
guaifenesin/dextromethorphan HBr/phenylephrine	Mucinex Fast-Max Congest-Cough
guaifenesin/dextromethorphan HBr/phenylephrine	Mucinex Freefrom Sev Cong-Coug
guaifenesin/dextromethorphan HBr/phenylephrine	Mucinex Junior Cough-Congest
guaifenesin/dextromethorphan HBr/phenylephrine	Mucus Relief Congestion-Cough
guaifenesin/dextromethorphan HBr/phenylephrine	Nivanex DMX
guaifenesin/dextromethorphan HBr/phenylephrine	Pres Gen
guaifenesin/dextromethorphan HBr/phenylephrine	Pres Gen Pediatric
guaifenesin/dextromethorphan HBr/phenylephrine	Relhist DMX
guaifenesin/dextromethorphan HBr/phenylephrine	Robafen CF (phenylephrine)
guaifenesin/dextromethorphan HBr/phenylephrine	Robitussin Cough and Cold CF
guaifenesin/dextromethorphan HBr/phenylephrine	Severe Cough-Congestion
guaifenesin/dextromethorphan HBr/phenylephrine	Supress DX
guaifenesin/dextromethorphan HBr/phenylephrine	Tusicof
guaifenesin/dextromethorphan HBr/phenylephrine	Tusnel DM
guaifenesin/dextromethorphan HBr/phenylephrine	Tusnel DM Pediatric(phenyleph)
guaifenesin/dextromethorphan HBr/phenylephrine	Tussi-Pres
guaifenesin/dextromethorphan HBr/phenylephrine	Tussi-Pres Pediatric
guaifenesin/dextromethorphan HBr/phenylephrine	Tussin CF (PE-DM-guaif)
guaifenesin/dextromethorphan HBr/phenylephrine	Tussin CF Cough-Cold

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
guaifenesin/dextromethorphan HBr/phenylephrine	Tussin CF MAX
guaifenesin/dextromethorphan HBr/phenylephrine	Tusslin
guaifenesin/dextromethorphan HBr/phenylephrine	VanaTab DM
guaifenesin/dextromethorphan HBr/phenylephrine	Vanacof DM
guaifenesin/dextromethorphan HBr/phenylephrine	Vanacof DMX
guaifenesin/dextromethorphan HBr/phenylephrine	phenylephrine-DM-guaifenesin
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Actinel
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Actinel Pediatric
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Aquanaz PSE
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Capmist DM
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Desgen DM (pseudoephedrine)
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Pecgen PSE
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Poly-Vent DM
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	TRISPEC PSE
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tusnel DM Pediatric(pseudoeph)
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tusnel New Formula
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tusnel Pediatric
guaifenesin/ephedrine HCl	Primatene Asthma
guaifenesin/phenylephrine HCl	Chest Congestion Relief PE
guaifenesin/phenylephrine HCl	Chest-Sinus Congestion Relief
guaifenesin/phenylephrine HCl	Child Mucinex Stuffy Nose-Chst
guaifenesin/phenylephrine HCl	Child Mucinex Stuffy Nose-Cold
guaifenesin/phenylephrine HCl	Children's Stuffy Nose-Cold
guaifenesin/phenylephrine HCl	Congest-Eze PE
guaifenesin/phenylephrine HCl	Deconex IR
guaifenesin/phenylephrine HCl	ED Bron GP
guaifenesin/phenylephrine HCl	ExaPhex TR
guaifenesin/phenylephrine HCl	Fenesin PE IR
guaifenesin/phenylephrine HCl	Gilphex TR
guaifenesin/phenylephrine HCl	Liquibid D-R
guaifenesin/phenylephrine HCl	Liquibid PD-R
guaifenesin/phenylephrine HCl	Maxi-Tuss PE Jr
guaifenesin/phenylephrine HCl	Maxi-Tuss PE Max
guaifenesin/phenylephrine HCl	Mucus Relief PE
guaifenesin/phenylephrine HCl	Mucus Relief Sinus
guaifenesin/phenylephrine HCl	Non-Drying Sinus
guaifenesin/phenylephrine HCl	RelCof IR
guaifenesin/phenylephrine HCl	Rescon-GG
guaifenesin/phenylephrine HCl	Supress-PE
guaifenesin/phenylephrine HCl	Tusnel Pediatric (guaifen-PE)
guaifenesin/phenylephrine HCl/acetaminophen	Cold Head Congest(gg-pe-acetm)
guaifenesin/phenylephrine HCl/acetaminophen	Cold and Sinus Multi-Symptom
guaifenesin/phenylephrine HCl/acetaminophen	Head Congestion-Mucus
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Fast-Max Cold-Sinus
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Fast-Max Cong-HA (GG)
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Freefrom Cold-Flu-Cong
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Sinus-Max Cng-Pain(gg)
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Sinus-Max Pressur-Pain

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Non-Proprietary Name	Proprietary Name
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Sinus-Max Sev Congestn
guaifenesin/phenylephrine HCl/acetaminophen	Mucus Relief Cold and Sinus
guaifenesin/phenylephrine HCl/acetaminophen	Mucus Rlf Severe Sinus Congest
guaifenesin/phenylephrine HCl/acetaminophen	Pressure-Pain PE Plus Mucus
guaifenesin/phenylephrine HCl/acetaminophen	Severe Congestion Relief
guaifenesin/phenylephrine HCl/acetaminophen	Severe Sinus
guaifenesin/phenylephrine HCl/acetaminophen	Sinus Congestion-Pain(guaif)
guaifenesin/phenylephrine HCl/acetaminophen	Sinus Relief Pressure and Pain
guaifenesin/phenylephrine HCl/acetaminophen	Sinus Relief Severe Congestion
guaifenesin/phenylephrine HCl/acetaminophen	Sudafed PE Head Congestn-Mucus
guaifenesin/phenylephrine HCl/acetaminophen	Sudafed PE Pressure-Pain-Mucus
guaifenesin/phenylephrine HCl/acetaminophen	Tylenol Cold Head Congest Sevr
guaifenesin/phenylephrine HCl/acetaminophen	Tylenol Sinus Severe
guaifenesin/pseudoephedrine HCl	Congestac
guaifenesin/pseudoephedrine HCl	Entex T
guaifenesin/pseudoephedrine HCl	Maxifed
guaifenesin/pseudoephedrine HCl	Mucinex D
guaifenesin/pseudoephedrine HCl	Mucinex D Maximum Strength
guaifenesin/pseudoephedrine HCl	Mucus D
guaifenesin/pseudoephedrine HCl	Mucus Relief D (pseudoephed)
guaifenesin/pseudoephedrine HCl	Poly-Vent IR
guaifenesin/pseudoephedrine HCl	Respaire-30
guaifenesin/pseudoephedrine HCl	Tusnel Pediatric (guaifen-PSE)
guaifenesin/pseudoephedrine HCl	pseudoephedrine-guaifenesin
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Zutripro
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	hydrocodone-cpm-pseudoephed
hydrocodone bitartrate/pseudoephedrine HCl/guaifenesin	Hycofenix
hydroxyamphetamine hbr/tropicamide	Paremyd
ibuprofen/phenylephrine HCl	Sudafed PE Head Congestn-Pain
ibuprofen/pseudoephedrine HCl	Advil Cold and Sinus
ibuprofen/pseudoephedrine HCl	Cold-Sinus Relief
ibuprofen/pseudoephedrine HCl	Cold-Sinus Relief (ibuprofen)
ibuprofen/pseudoephedrine HCl	Ibuprofen Cold-Sinus(with PSE)
lidocaine HCl/epinephrine	Tymbion
lidocaine HCl/epinephrine	Xylocaine with Epinephrine
lidocaine HCl/epinephrine	lidocaine-epinephrine
lidocaine HCl/epinephrine bitartrate	Xylocaine Dental-Epinephrine
lidocaine HCl/epinephrine bitartrate	lidocaine-epinephrine bit
lidocaine HCl/epinephrine bitartrate/tetracaine HCl	L.E.T.(lido-epineph bit-tetra)
lidocaine HCl/epinephrine in sodium chloride, iso-osmotic	lidocaine-epineph-sodium chlor
lidocaine HCl/epinephrine/PF	Xylocaine-MPF/Epinephrine
lidocaine HCl/epinephrine/PF	lidocaine-epinephrine (PF)
lidocaine HCl/phenylephrine HCl/sodium chloride, iso-osm/PF	lidocaine-phenyleph-sod Cl(PF)
lidocaine HCl/phenylephrine HCl/water for injection,sterile	lidocaine-phenylephrn in water
lidocaine HCl/phenylephrine/balanced salt irrigation no.2/PF	lidocaine-phenylephrin-BSS(PF)

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Non-Proprietary Name	Proprietary Name
lidocaine HCl/racepinephrine HCl/tetracaine HCl	L.E.T. (lido-epineph-tetra)
lidocaine HCl/racepinephrine HCl/tetracaine HCl	lidocaine-racepinep-tetracaine
lidocaine/phenylephrine HCl/glycerin	Medicated Hemorrhoid Pain Rlf
lisdexamfetamine dimesylate	Vyvanse
lisdexamfetamine dimesylate	lisdexamfetamine
loratadine/pseudoephedrine sulfate	Alavert D-12 Allergy-Sinus
loratadine/pseudoephedrine sulfate	AllerClear D-12hr
loratadine/pseudoephedrine sulfate	AllerClear D-24hr
loratadine/pseudoephedrine sulfate	Allergy Relief D-24hr
loratadine/pseudoephedrine sulfate	Allergy Relief D12
loratadine/pseudoephedrine sulfate	Allergy Relief,Nasal Decongest
loratadine/pseudoephedrine sulfate	Allergy Relief-D (loratadine)
loratadine/pseudoephedrine sulfate	Allergy and Congestion Relief
loratadine/pseudoephedrine sulfate	Claritin-D 12 Hour
loratadine/pseudoephedrine sulfate	Claritin-D 24 Hour
loratadine/pseudoephedrine sulfate	Loratadine-D
loratadine/pseudoephedrine sulfate	lorata-dine D
loratadine/pseudoephedrine sulfate	loratadine-pseudoephedrine
methamphetamine HCl	Desoxyn
methamphetamine HCl	methamphetamine
methylphenidate	Cotempla XR-ODT
methylphenidate	Daytrana
methylphenidate	methylphenidate
methylphenidate HCl	Adhansia XR
methylphenidate HCl	Aptensio XR
methylphenidate HCl	Concerta
methylphenidate HCl	Jornay PM
methylphenidate HCl	Metadate CD
methylphenidate HCl	Metadate ER
methylphenidate HCl	Methylin
methylphenidate HCl	QuilliChew ER
methylphenidate HCl	Quillivant XR
methylphenidate HCl	Relexxii
methylphenidate HCl	Ritalin
methylphenidate HCl	Ritalin LA
methylphenidate HCl	methylphenidate HCl
midodrine HCl	midodrine
naphazoline HCl/glycerin	Clear Eyes Cooling Comfort
naphazoline HCl/glycerin	Clear Eyes Max Redness Relief
naphazoline HCl/glycerin	Clear Eyes Redness Relief
naphazoline HCl/glycerin	Redness Relief
naphazoline HCl/hypromellose	Maximum Redness Relief
naphazoline HCl/hypromellose/polysorbate 80/zinc sulfate	Clear Eyes Complete
naphazoline HCl/pheniramine maleate	Eye Allergy Relief
naphazoline HCl/pheniramine maleate	Naphcon-A
naphazoline HCl/pheniramine maleate	Visine-A
naphazoline HCl/polyethylene glycol 300	Redness Reliever Lubricant
naphazoline HCl/zinc sulfate/glycerin	Clear Eyes Itchy Eye Relief

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Non-Proprietary Name	Proprietary Name
naproxen sodium/pseudoephedrine HCl	All Day Cold and Sinus
naproxen sodium/pseudoephedrine HCl	Sinus and Cold-D
naproxen sodium/pseudoephedrine HCl	Sudafed Sinus 12Hr Pressr-Pain
norepinephrine bitartrate	Levophed (bitartrate)
norepinephrine bitartrate	norepinephrine bitartrate
norepinephrine bitartrate in 0.9 % sodium chloride	norepinephrine bitartrate-NaCl
norepinephrine bitartrate in 0.9 % sodium chloride/PF	norepinephrine-0.9 % NaCl (PF)
norepinephrine bitartrate in 5 % dextrose in water	norepinephrine bitartrate-D5W
norepinephrine bitartrate in sterile water	norepinephrine bitart in water
oxymetazoline HCl	12 Hour Nasal Relief Spray
oxymetazoline HCl	12 Hour Nasal Spray
oxymetazoline HCl	Afrin (oxymetazoline)
oxymetazoline HCl	Afrin No Drip(oxymetazolin)
oxymetazoline HCl	Afrin Sinus (oxymetazoline)
oxymetazoline HCl	Allergy Nasal (oxymetazoline)
oxymetazoline HCl	Child Mucinex Stuffy Nose Spry
oxymetazoline HCl	Dristan Long Lasting
oxymetazoline HCl	Giltuss Severe Sinus
oxymetazoline HCl	Long Acting Nasal Spray
oxymetazoline HCl	Mucinex Sinus-Max
oxymetazoline HCl	Nasal Decongestant (oxymetazl)
oxymetazoline HCl	Nasal Spray (oxymetazoline)
oxymetazoline HCl	Nasal Spray 12Hr(oxymetazoline
oxymetazoline HCl	Nasal Spray Extra Moisturizing
oxymetazoline HCl	Nasal Spray Sinus
oxymetazoline HCl	No Drip
oxymetazoline HCl	No Drip Nasal Mist
oxymetazoline HCl	Nostrilla
oxymetazoline HCl	Original Nasal Spray
oxymetazoline HCl	Rhofade
oxymetazoline HCl	Sinus Nasal Spray
oxymetazoline HCl	Sinus Relief (oxymetazoline)
oxymetazoline HCl	Vicks QlearQuil(oxymetazoline)
oxymetazoline HCl	Vicks Sinex 12-Hour
oxymetazoline HCl	Vicks Sinex Ultra Fine Mist 12
oxymetazoline HCl	oxymetazoline
oxymetazoline HCl/PF	Upneeq (PF)
pheniramine maleate/phenylephrine HCl/acetaminophen	Theraflu Flu-Sore Throat
pheniramine maleate/phenylephrine HCl/dextromethorphan HBr	Alahist DM(pheniramine)
phenylephrine HCl	4 Way
phenylephrine HCl	Anu-Med
phenylephrine HCl	Biorphen
phenylephrine HCl	Children's Sudafed PE Nasal
phenylephrine HCl	Fast Acting Nasal
phenylephrine HCl	Hemorrhoidal Suppository
phenylephrine HCl	Immphentiv
phenylephrine HCl	Little Noses

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Non-Proprietary Name	Proprietary Name
phenylephrine HCl	Nasal Decongestant (PE)
phenylephrine HCl	Nasal Four
phenylephrine HCl	Neo-Synephrine (phenylephrine)
phenylephrine HCl	Nose Drops
phenylephrine HCl	Nose Drops Extra Strength
phenylephrine HCl	Sinus PE Decongestant
phenylephrine HCl	Sinus Relief (phenylephrine)
phenylephrine HCl	Sudafed PE
phenylephrine HCl	Sudogest PE
phenylephrine HCl	Suphedrine PE
phenylephrine HCl	Vazculep
phenylephrine HCl	phenylephrine HCl
phenylephrine HCl in 0.9 % sodium chloride	phenylephrine HCl in 0.9% NaCl
phenylephrine HCl in dextrose 5 % in water	phenylephrine HCl in D5W
phenylephrine HCl in sterile water for injection	phenylephrine in sterile water
phenylephrine HCl/acetaminophen	Acetaminophen Congestion-Pain
phenylephrine HCl/acetaminophen	Contac Cold-Flu Day
phenylephrine HCl/acetaminophen	Mapap Sinus Max Strength (PE)
phenylephrine HCl/acetaminophen	Pain Relief Sinus PE
phenylephrine HCl/acetaminophen	Pressure And Pain PE
phenylephrine HCl/acetaminophen	Sinus Congestion and Pain
phenylephrine HCl/acetaminophen	Sinus Headache PE
phenylephrine HCl/acetaminophen	Sinus Pain Relief
phenylephrine HCl/acetaminophen	Sinus Pain-Pressure (PE)
phenylephrine HCl/acetaminophen	Sinus Relief (Non-Drowsy)
phenylephrine HCl/acetaminophen	Sudafed PE Pressure-Pain
phenylephrine HCl/acetaminophen	Suphedrine PE Sinus Headache
phenylephrine HCl/acetaminophen	Tylenol Sinus Headache
phenylephrine HCl/acetaminophen/chlorpheniramine	Allergy Multi-Symptom
phenylephrine HCl/acetaminophen/chlorpheniramine	Allergy Relief Multi-Symptom
phenylephrine HCl/acetaminophen/chlorpheniramine	Allergy Sinus PE
phenylephrine HCl/acetaminophen/chlorpheniramine	Contac Cold-Flu Day and Night
phenylephrine HCl/acetaminophen/chlorpheniramine	Contac Cold-Flu Max Strength
phenylephrine HCl/acetaminophen/chlorpheniramine	Dristan Cold
phenylephrine HCl/acetaminophen/chlorpheniramine	Norel AD
phenylephrine HCl/acetaminophen/chlorpheniramine	Sinus Congest-Pain Day-Night
phenylephrine HCl/acetaminophen/chlorpheniramine	Sinus Congestion-Pain(chlorph)
phenylephrine HCl/acetaminophen/chlorpheniramine	Sinus-Headache Day-Night
phenylephrine HCl/acetaminophen/chlorpheniramine	Sinutrol PE
phenylephrine HCl/acetaminophen/doxylamine succinate	DayTime and NiteTime Sinus
phenylephrine HCl/acetaminophen/doxylamine succinate	Sinus Daytime-Nightime
phenylephrine HCl/balanced salt irrig soln no.2/PF	phenylephrine (PF)-BSS
phenylephrine HCl/cocoa butter	Hemorrhoidal (phenyleph-cocoa)
phenylephrine HCl/cocoa butter	Preparation H(pe,cb)
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Child Mucinex Cough-Cold-Fever
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Child Mucinex Freefrom Dy Cold

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Non-Proprietary Name	Proprietary Name
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Child Mucinex MS Cold-Throat
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Child Multi-Symptom Cold-Fever
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Children's Cold-Cough-Sore
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Children's Mucinex Cold-Fever
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Children's Mucinex Cold-Flu
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Cold Head Congestion Sever Day
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Cold Max Severe Daytime
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Cold Severe Congestion
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Cold and Flu Severe
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Cold-Flu-Sore Throat
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Daytime Max Cold-Flu
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Delsym Cough-Cold Daytime
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Dometuss G
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Herbiomed Severe Cold-Flu M-S
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Maximum Strength Cold-Flu
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Mucinex Cold,Flu,Sore Throat
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Mucinex Fast-Max Cold-Flu
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Mucinex Fast-Max Cold-Flu-Thrt
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Mucinex Fast-Max Severe Cold
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Mucinex Freefrom Day Cold-Flu
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Mucinex Junior Cold-Flu
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Mucinex Sinus-Max Pressure-Cgh
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Mucus Relief Cold-Flu-Sore Thr
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Mucus Relief Sev Congest-Cold

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Mucus Relief Severe Cold
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Multi-Symptom Cold (PE)
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Pressure-Pain PE Plus Cold
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Rompe Pecho Max Multi Symptoms
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Severe Cold
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Severe Cold Multi-Symptom
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Severe Cold and Flu (PE)
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Sinus PE Pressure-Pain-Cold
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Sudafed PE Head Congestion-Flu
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Sudafed PE Pressure-Pain-Cold
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Theraflu ExpressMax Sv Cld-Flu
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Tussin CF Max Severe M-S Cold
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Tylenol Cold and Flu Severe
phenylephrine HCl/dextromethorphan HBr/acetaminophen/guaifen	Vicks DayQuil Severe Cold-Flu
phenylephrine HCl/diphenhydramine HCl	Allergy and Sinus Relief
phenylephrine HCl/diphenhydramine HCl	Benadryl Allergy Plus Congest
phenylephrine HCl/diphenhydramine HCl	Child Allergy Plus Congestion
phenylephrine HCl/diphenhydramine HCl	Child Benadryl Plus Congestion
phenylephrine HCl/diphenhydramine HCl	Childs Triacting Cold-Cough
phenylephrine HCl/diphenhydramine HCl	Cold and Cough (diphenhydr-pe)
phenylephrine HCl/diphenhydramine HCl	Dimetapp Cold-Congestion
phenylephrine HCl/diphenhydramine HCl	Dr Manzanilla Cough-Cold
phenylephrine HCl/diphenhydramine HCl	Sudafed PE Day and Night
phenylephrine HCl/diphenhydramine HCl	Triaminic Cold and CoughNT(PE)
phenylephrine HCl/hydrogenated vegetable oil	Hemorrhoidal (phenyleph-fat)
phenylephrine HCl/hypromellose/glycerin/PF	Clear Eyes Pure Relief MS (PF)
phenylephrine HCl/ketorolac tromethamine	Omidria
phenylephrine HCl/mineral oil/petrolatum,white	GRx Hemorrhoidal
phenylephrine HCl/mineral oil/petrolatum,white	Hemorrhoidal(PE-min oil-petro)
phenylephrine HCl/mineral oil/petrolatum,white	Major-Prep Hemorrhoidal
phenylephrine HCl/mineral oil/petrolatum,white	Preparation H
phenylephrine HCl/pheniramine maleate	Alahist D
phenylephrine HCl/pramoxine HCl/glycerin/white petrolatum	Hemorrhoidal Cream
phenylephrine HCl/pramoxine HCl/glycerin/white petrolatum	Preparation H Maximum Strength

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
phenylephrine HCl/promethazine HCl	Promethazine VC
phenylephrine HCl/promethazine HCl	promethazine-phenylephrine
phenylephrine HCl/pyrilamine maleate	Glen PE
phenylephrine HCl/pyrilamine maleate	pyrilamine-phenylephrine
phenylephrine HCl/shark liver oil/mineral oil/wh.petrolatum	Hemorrhoid
phenylephrine HCl/shark liver oil/mineral oil/wh.petrolatum	Hemorrhoidal
phenylephrine HCl/triprolidine HCl	Dr Manzanilla PE
phenylephrine HCl/triprolidine HCl	Histex PE
phenylephrine HCl/triprolidine HCl	Stahist TP
phenylephrine HCl/tropicamide	MydCombi
phenylephrine HCl/tropicamide in sterile water	phenyleph-tropicamide in water
phenylephrine HCl/witch hazel	Hemorrhoidal Cooling
phenylephrine HCl/witch hazel	Preparation H(pe, witch hazel)
phenylephrine/glycerin	Clear Eyes Sensitive
prilocaine HCl/epinephrine bitartrate	Citanest Forte Dental
promethazine/phenylephrine HCl/codeine	Promethazine VC-Codeine
promethazine/phenylephrine HCl/codeine	promethazine-phenyleph-codeine
pseudoephedrine HCl	12 Hour Decongestant
pseudoephedrine HCl	12 Hour Nasal Decongest (PSE)
pseudoephedrine HCl	Children's Sudafed
pseudoephedrine HCl	Long Acting Nasal Decong (PSE)
pseudoephedrine HCl	Nasal Decongestant (pseudoeph)
pseudoephedrine HCl	Pedia Relief Infant Nasal
pseudoephedrine HCl	Sinus 12 Hour
pseudoephedrine HCl	Sudafed
pseudoephedrine HCl	Sudafed 12 Hour
pseudoephedrine HCl	Sudafed 24 Hour
pseudoephedrine HCl	Sudogest
pseudoephedrine HCl	Sudogest 12-hour
pseudoephedrine HCl	Suphedrin
pseudoephedrine HCl	Suphedrine
pseudoephedrine HCl	Suphedrine 12 Hour
pseudoephedrine HCl	Valu-Tapp Decongestant
pseudoephedrine HCl	Zephrex-D
pseudoephedrine HCl	pseudoephedrine HCl
pseudoephedrine HCl/acrivastine	Semprex-D
pseudoephedrine HCl/chlophedianol HCl	Rondec-D
pseudoephedrine HCl/chlophedianol HCl/guaifenesin	Certuss-D
pseudoephedrine HCl/chlorpheniramine maleate/bellad alk	Respa-AR
pseudoephedrine HCl/codeine phosphate/guaifenesin	Coditussin DAC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Guaifenesin DAC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Lortuss EX
pseudoephedrine HCl/codeine phosphate/guaifenesin	Virtussin DAC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 25
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 30
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 35
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 40
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 50

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 60
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 80
pseudoephedrine HCl/codeine/chlorpheniramine	Phenylhistine DH
pseudoephedrine HCl/hydrocodone bitartrate	Rezira
pseudoephedrine/dextromethorphan/guaifenesin/acetaminophen	Duraflu
pyrilamine maleate/phenylephrine HCl/dextromethorphan HBr	Polytussin DM(pyrilamine)
pyrilamine maleate/pseudoephedrine HCl/chlophedianol HCl	Ninjacof-D
racepinephrine HCl	Asthmanefrin Refill
racepinephrine HCl	S2 Racepinephrine
racepinephrine HCl	racepinephrine
racepinephrine HCl/lidocaine HCl/balanced salt soln no.7/PF	racepineph-lidocaine-BSS 7(PF)
ropivacaine HCl/epinephrine/clonidine HCl/ketorolac trometh	ropivacaine-epi-clonid-ketorol
serdexmethylphenidate chloride/dexmethylphenidate HCl	Azstarys
tetracaine HCl/oxymetazoline HCl	Kovanaze
thonzylamine HCl/phenylephrine HCl	Nasopen PE
thonzylamine HCl/phenylephrine HCl/dextromethorphan HBr	Poly-Hist DM (thonzylamine)
timolol mal/brimonidine tart/dorzolamide HCl/bimatoprost/PF	timol-brimon-dorzol-bimato(PF)
timolol malea/brimonidine tar/dorzolamide HCl/latanoprost/PF	timol-brimon-dorzo-latanop(PF)
timolol maleate/brimonidine tart/dorzolamide HCl/bimatoprost	timolol-brimon-dorzol-bimatop
timolol maleate/brimonidine tartrate/dorzolamide HCl	timolol-brimonidine-dorzolamid
timolol maleate/brimonidine tartrate/dorzolamide HCl/PF	timolol-brimonidi-dorzolam(PF)
triprolidine HCl/phenylephrine HCl/codeine phosphate	Histex-AC
triprolidine HCl/phenylephrine HCl/dextromethorphan HBr	Dr Manzanilla DM
triprolidine HCl/phenylephrine HCl/dextromethorphan HBr	Histex-DM (PE)
triprolidine HCl/phenylephrine HCl/dextromethorphan HBr	Miclara DM
triprolidine HCl/phenylephrine HCl/dextromethorphan HBr	Triponel (trip-PE-DM)
triprolidine HCl/phenylephrine/dextromethorphn/acetaminophen	Child Mucinex Freefrom Nt Cold
triprolidine HCl/phenylephrine/dextromethorphn/acetaminophen	Mucinex Freefrom Nt Cold-Flu
triprolidine HCl/phenylephrine/dextromethorphn/acetaminophen	Mucinex Nightshft Cold-Flu Clr
triprolidine HCl/phenylephrine/dextromethorphn/acetaminophen	Mucinex Nightshft Sevr Cld-Flu
triprolidine HCl/phenylephrine/dextromethorphn/acetaminophen	Mucinex Nightshift Sinus
triprolidine HCl/pseudoephedrine HCl	Aprodine
triprolidine HCl/pseudoephedrine HCl	Ed A-Hist PSE
triprolidine HCl/pseudoephedrine HCl	Maxi-Tuss TR
triprolidine HCl/pseudoephedrine HCl	Maxifed TR
triprolidine HCl/pseudoephedrine HCl	Ritifed

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
triprolidine HCl/pseudoephedrine HCl/dextromethorphan HBr	Triponel (trip-pseudoephed-DM)
triprolidine/phenylephrine/dextromethorph/acetamin/guaifenes	Child Mucinex Freefrom MS D-N
triprolidine/phenylephrine/dextromethorph/acetamin/guaifenes	Mucinex Fast-Max Cold-Nghtshft
triprolidine/phenylephrine/dextromethorph/acetamin/guaifenes	Mucinex Fast-Max Cong-Nghtshft
triprolidine/phenylephrine/dextromethorph/acetamin/guaifenes	Mucinex Fast-Max Kckstrt Dy-Nt
triprolidine/phenylephrine/dextromethorph/acetamin/guaifenes	Mucinex Fast-Max Nightshft Clr
triprolidine/phenylephrine/dextromethorph/acetamin/guaifenes	Mucinex Freefrom Cold-Flu D-N
triprolidine/phenylephrine/dextromethorph/acetamin/guaifenes	Mucinex Sinus-Max Day-Night
triprolidine/phenylephrine/dextromethorph/acetamin/guaifenes	Mucinex Sinus-Max Nightshift
tropicamide/proparacaine/phenylephrine/ketorolac in water	Mydriatic4(trop-prop-PE-ktrlc)
tropicamide/proparacaine/phenylephrine/ketorolac in water	tropic-proparacai-pe-ketor-wat
Ergot Derivatives and Methysergide	
bromocriptine mesylate	Cycloset
bromocriptine mesylate	Parlodel
bromocriptine mesylate	bromocriptine
cabergoline	cabergoline
dihydroergotamine mesylate	D.H.E.45
dihydroergotamine mesylate	Migranal
dihydroergotamine mesylate	Trudhesa
dihydroergotamine mesylate	dihydroergotamine
ergotamine tartrate	Ergomar
ergotamine tartrate/caffeine	Cafergot
ergotamine tartrate/caffeine	Migergot
ergotamine tartrate/caffeine	ergotamine-caffeine
methylergonovine maleate	Methergine
methylergonovine maleate	methylergonovine
Triptans/Ditans	
almotriptan malate	Axert
almotriptan malate	almotriptan malate
eletriptan hydrobromide	Relpax
eletriptan hydrobromide	eletriptan
frovatriptan succinate	Frova
frovatriptan succinate	frovatriptan
lasmiditan succinate	Reyvow
naratriptan HCl	Amerge
naratriptan HCl	naratriptan
rizatriptan benzoate	Maxalt
rizatriptan benzoate	Maxalt-MLT
rizatriptan benzoate	rizatriptan

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
rizatriptan benzoate/meloxicam	Symbravo
sumatriptan	Imitrex
sumatriptan	Tosymra
sumatriptan	sumatriptan
sumatriptan succinate	Imitrex
sumatriptan succinate	Imitrex STATdose Pen
sumatriptan succinate	Imitrex STATdose Refill
sumatriptan succinate	Onzetra Xsail
sumatriptan succinate	Sumavel DosePro
sumatriptan succinate	Zembrace Symtouch
sumatriptan succinate	sumatriptan succinate
sumatriptan succinate/menthol/camphor	Migranow
sumatriptan succinate/naproxen sodium	Treximet
sumatriptan succinate/naproxen sodium	sumatriptan-naproxen
zolmitriptan	Zomig
zolmitriptan	Zomig ZMT
zolmitriptan	zolmitriptan
Antihypertensives	
aliskiren hemifumarate	Tekturna
aliskiren hemifumarate	aliskiren
aliskiren hemifumarate/hydrochlorothiazide	Tekturna HCT
amlodipine besylate/benazepril HCl	Lotrel
amlodipine besylate/benazepril HCl	amlodipine-benazepril
amlodipine besylate/olmesartan medoxomil	Azor
amlodipine besylate/olmesartan medoxomil	amlodipine-olmesartan
amlodipine besylate/valsartan	Exforge
amlodipine besylate/valsartan	amlodipine-valsartan
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid
aprocitentan	Tryvio
atenolol/chlorthalidone	Tenoretic 100
atenolol/chlorthalidone	Tenoretic 50
atenolol/chlorthalidone	atenolol-chlorthalidone
azilsartan medoxomil	Edarbi
azilsartan medoxomil/chlorthalidone	Edarbyclor
benazepril HCl	Lotensin
benazepril HCl	benazepril
benazepril HCl/hydrochlorothiazide	Lotensin HCT
benazepril HCl/hydrochlorothiazide	benazepril-hydrochlorothiazide
bisoprolol fumarate/hydrochlorothiazide	Ziac
bisoprolol fumarate/hydrochlorothiazide	bisoprolol-hydrochlorothiazide
candesartan cilexetil	Atacand
candesartan cilexetil	candesartan
candesartan cilexetil/hydrochlorothiazide	Atacand HCT
candesartan cilexetil/hydrochlorothiazide	candesartan-hydrochlorothiazid
captopril	captopril
captopril/hydrochlorothiazide	captopril-hydrochlorothiazide
clonidine	Catapres-TTS-1

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
clonidine	Catapres-TTS-2
clonidine	Catapres-TTS-3
clonidine	clonidine
clonidine HCl	Catapres
clonidine HCl	Kapvay
clonidine HCl	Nexiclon XR
clonidine HCl	Onyda XR
clonidine HCl	clonidine HCl
doxazosin mesylate	Cardura
doxazosin mesylate	Cardura XL
doxazosin mesylate	doxazosin
enalapril maleate	Epaned
enalapril maleate	Vasotec
enalapril maleate	enalapril maleate
enalapril maleate/hydrochlorothiazide	Vaseretic
enalapril maleate/hydrochlorothiazide	enalapril-hydrochlorothiazide
enalaprilat dihydrate	enalaprilat
eplerenone	Inspra
eplerenone	eplerenone
eprosartan mesylate	eprosartan
fenoldopam mesylate	Corlopam
fosinopril sodium	fosinopril
fosinopril sodium/hydrochlorothiazide	fosinopril-hydrochlorothiazide
guanfacine HCl	Intuniv ER
guanfacine HCl	guanfacine
hydralazine HCl	hydralazine
irbesartan	Avapro
irbesartan	irbesartan
irbesartan/hydrochlorothiazide	Avalide
irbesartan/hydrochlorothiazide	irbesartan-hydrochlorothiazide
lisinopril	Prinivil
lisinopril	Qbrelis
lisinopril	Zestril
lisinopril	lisinopril
lisinopril/hydrochlorothiazide	Zestoretic
lisinopril/hydrochlorothiazide	lisinopril-hydrochlorothiazide
losartan potassium	Arbli
losartan potassium	Cozaar
losartan potassium	losartan
losartan potassium/hydrochlorothiazide	Hyzaar
losartan potassium/hydrochlorothiazide	losartan-hydrochlorothiazide
mecamylamine HCl	Vecamyl
methyldopa	methyldopa
methyldopa/hydrochlorothiazide	methyldopa-hydrochlorothiazide
methyldopate HCl	methyldopate
metoprolol succinate/hydrochlorothiazide	Dutoprol
metoprolol succinate/hydrochlorothiazide	metoprolol su-hydrochlorothiaz
metoprolol tartrate/hydrochlorothiazide	metoprolol ta-hydrochlorothiaz

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
minoxidil	Daylogic Minoxidil
minoxidil	Gainextra Hair Regrowth
minoxidil	Hair Regrowth For Men
minoxidil	Hair Regrowth Treatment
minoxidil	Rogaine
minoxidil	Rogaine Extra Strength for Men
minoxidil	minoxidil
moexipril HCl	moexipril
moexipril HCl/hydrochlorothiazide	moexipril-hydrochlorothiazide
nadolol/bendroflumethiazide	Corzide
nadolol/bendroflumethiazide	nadolol-bendroflumethiazide
nebivolol HCl/valsartan	Byvalson
nitroprusside sodium	Nitropress
nitroprusside sodium	sodium nitroprusside
nitroprusside sodium in 0.9 % sodium chloride	Nipride RTU
nitroprusside sodium in 0.9 % sodium chloride	nitroprusside in 0.9 % NaCl
olmesartan medoxomil	Benicar
olmesartan medoxomil	olmesartan
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	Tribenzor
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	olmesartan-amlodipin-hcthiazid
olmesartan medoxomil/hydrochlorothiazide	Benicar HCT
olmesartan medoxomil/hydrochlorothiazide	olmesartan-hydrochlorothiazide
papaverine HCl	papaverine
perindopril arginine/amlodipine besylate	Prestalia
perindopril erbumine	perindopril erbumine
prazosin HCl	Minipress
prazosin HCl	prazosin
propranolol HCl/hydrochlorothiazide	propranolol-hydrochlorothiazid
quinapril HCl	Accupril
quinapril HCl	quinapril
quinapril HCl/hydrochlorothiazide	Accuretic
quinapril HCl/hydrochlorothiazide	quinapril-hydrochlorothiazide
ramipril	Altace
ramipril	ramipril
sacubitril/valsartan	Entresto
sacubitril/valsartan	Entresto Sprinkle
sacubitril/valsartan	sacubitril-valsartan
spironolactone	Aldactone
spironolactone	CaroSpir
spironolactone	spironolactone
telmisartan	Micardis
telmisartan	telmisartan
telmisartan/amlodipine besylate	Twynsta
telmisartan/amlodipine besylate	telmisartan-amlodipine
telmisartan/hydrochlorothiazide	Micardis HCT
telmisartan/hydrochlorothiazide	telmisartan-hydrochlorothiazid

Appendix J. List of Non-Proprietary and Proprietary Names of Medical Products Used to Define Covariates in this Request

Non-Proprietary Name	Proprietary Name
terazosin HCl	Tezruly
terazosin HCl	terazosin
trandolapril	trandolapril
trandolapril/verapamil HCl	Tarka
trandolapril/verapamil HCl	trandolapril-verapamil
valsartan	Diovan
valsartan	valsartan
valsartan/hydrochlorothiazide	Diovan HCT
valsartan/hydrochlorothiazide	valsartan-hydrochlorothiazide

Appendix K. Specifications Defining Cohort Parameters in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool 14.3.0 to estimate rates of calcitonin gene-related peptide (CGRP) inhibitors use and serious gastrointestinal (GI) hypomotility and intentional self-harm events in the Sentinel Distributed Database (SDD).

Query Period: January 1, 2020 to June 30, 2025 (r01); May 1, 2018 to June 30, 2025 (r02)
Coverage Requirement: Medical & Drug Coverage
Pre-index Enrollment Requirement: 183 days
Post-Index Enrollment Requirement: N/A
Post-Episode Requirement for Type 2 Analyses: None
Enrollment gap: 45 days
Restrictions: None
Age groups: 18-29 years, 30-39 years, 40-49 years, 50-59 years, 60+ years
Sex: Male, Female
Other Demographic Restrictions: None
Stratifications: Age group, Sex, Calendar year, Race
Censor output categorization: 1-49 days, 50-99 days, 100-149 days, 150-199 days, 200-249 days, 250-299 days, 300+ days
Envelope macro: Reclassify encounters during inpatient stay as inpatient
Never-exposed cohort: N
Freeze data: Y

	Comparison 1: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		**Comparison 2: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome**	
Logic				
Run Number	**r01**		**r01**	
Drug/Exposure				
Index Exposure/Comparator	Small Molecule CGRP Antagonists	Onabotulinum Toxin	Small Molecule CGRP Antagonists	Triptans/DHE
Cohort Definition	First valid exposure episodes during query period		First valid exposure episodes during query period	
Incidence Exposure Washout Period	183 days		183 days	
Incident with Respect to:	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE

Appendix K. Specifications Defining Cohort Parameters in this Request

	Comparison 1: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Comparison 2: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
Exclude Evidence of Days Supply if Exposure Washout Include Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Stockpiling	See Appendix N		See Appendix N	
Build Episodes on Point Exposure?	No		No	
Treatment Episode Gap	45 days		45 days	
Exposure Episode Extension	45 days		45 days	
Minimum Exposure Episode Duration	1 day		1 day	
Minimum Exposure Episode Days Supplied	1 day		1 day	
Maximum Exposure Episode Duration	None (N/A)		None (N/A)	
Minimum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Maximum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Incidence Criteria Care Setting and Diagnosis Position	Any Caresetting		Any Caresetting	
Forced Supply to Attach to Dispensings	None (N/A)		None (N/A)	
Create Baseline Table?	Yes		Yes	

Appendix K. Specifications Defining Cohort Parameters in this Request

	Comparison 1: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	Comparison 2: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
Inclusion/Exclusion Criteria 1		
Type of Criteria	Inclusion	Inclusion
Name of Include/Exclude Condition	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses AND neurology encounter (-183,0, via plus programming)	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)
Evaluation Period Start	-183 days (or ever during study period for Triptan)	-183 days (or ever during study period for Triptan)
Evaluation Period End	Day 0	Day 0
Inclusion/Exclusion Criteria Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	a) 2 b) 1 c) 1	a) 2 b) 1 c) 1
Forced Supply to Attach to Dispensings	None	None
Inclusion/Exclusion Criteria 2		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)	GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day

Appendix K. Specifications Defining Cohort Parameters in this Request

	Comparison 1: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Comparison 2: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Inclusion/Exclusion Criteria 3				
Type of Criteria	Exclusion	Exclusion	Exclusion	Exclusion
Name of Include/Exclude Condition	Onabotulinum Toxin	CGRP Inhibitors	triptans	CGRP Inhibitors
Evaluation Period Start	-183 days	-183 days	-183 days	-183 days
Evaluation Period End	Day 0	Day 0	Day 0	Day 0
Care Setting and Diagnosis Position Requirements	None	None	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1	1	1
Additional Inclusion/Exclusion Criteria				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	Cancer Diagnosis except non-melanoma skin cancer		Cancer Diagnosis except non-melanoma skin cancer	
Evaluation Period Start	-183 days		-183 days	

Appendix K. Specifications Defining Cohort Parameters in this Request

	Comparison 1: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Comparison 2: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Additional Inclusion/Exclusion Criteria				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)		Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)	
Evaluation Period Start	-183 days		-183 days	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	IP*		IP*	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
At Risk Time				
End At-Risk Period at Evidence of	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end

Appendix K. Specifications Defining Cohort Parameters in this Request

	Comparison 1: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	Comparison 2: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
Blackout Period	None	None
Risk Window Interval Start	Day 0	Day 0
Event/Outcome		
Event/Outcome	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia) AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia) AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization
Incident Event Washout Period	183 days	183 days
Event/Outcome Care Setting and Diagnosis Position Requirements	IP*	IP*
Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Event De-duplication	De-duplicate occurrences of the same event code and code type on the same day	De-duplicate occurrences of the same event code and code type on the same day
Forced Supply to Attach to Dispensings	N/A	N/A

Appendix K. Specifications Defining Cohort Parameters in this Request

	Comparison 1: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	Comparison 2: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
Propensity Score Model Parameters		
Categorical Variables to Include in Propensity Score Model	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications (Triptans/Ditans covariate NOT included in model for this cohort)
Continuous Variables to Include in Propensity Score Model	Age	Age
Firth Logistic Intercept Correct (FLIC) Method	No	No
Zero Cell Correction	Yes	Yes
Truncation for ICD-9 or ICD-10 Diagnosis Codes	N/A	N/A
Should Output Include Kaplan Meier Plots?	Yes	*No *Yes

Appendix K. Specifications Defining Cohort Parameters in this Request

	Comparison 1: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	Comparison 2: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
A. PS Matching		
Matching Algorithm Type	Fixed ratio matching	Fixed ratio matching
Maximum Number of Matches	1:1	1:1
Matching Caliper Settings	0.05	0.05
Return Unconditional Analysis	Unconditional analysis (create risk sets not stratified by matchID)	Unconditional analysis (create risk sets not stratified by matchID)
International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®.		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 3: CGRP mAb Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Comparison 4: CGRP mAb Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
Logic				
Run Number	**r02**		**r02**	
Drug/Exposure				
Index Exposure/Comparator	mAb CGRP	Onabotulinum Toxin	mAb CGRP	Triptans/DHE
Cohort Definition	First valid exposure episodes during query period;		First valid exposure episodes during query period;	
Incidence Exposure Washout Period	183 days		183 days	
Incident with Respect to:	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE
Exclude Evidence of Days Supply if Exposure Washout Include Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Stockpiling	See Appendix N		See Appendix N	
Build Episodes on Point Exposure?	No		No	
Treatment Episode Gap	120 days		120 days	
Exposure Episode Extension	120 days		120 days	
Minimum Exposure Episode Duration	1 day		1 day	
Minimum Exposure Episode Days Supplied	1 day		1 day	
Maximum Exposure Episode Duration	None (N/A)		None (N/A)	
Minimum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Maximum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Incidence Criteria Care Setting and Diagnosis Position Requirements	Any Caresetting		Any Caresetting	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 3: CGRP mAb Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	Comparison 4: CGRP mAb Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
Forced Supply to Attach to Dispensings	None (N/A)	None (N/A)
Create Baseline Table?	Yes	Yes
Inclusion/Exclusion Criteria 1		
Type of Criteria	Inclusion	Inclusion
Name of Include/Exclude Condition	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)
Evaluation Period Start	-183 days (or ever during study period for Triptan)	-183 days (or ever during study period for Triptan)
Evaluation Period End	Day 0	Day 0
Inclusion/Exclusion Criteria Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	a) 2 b) 1 c) 1	a) 2 b) 1 c) 1
Forced Supply to Attach to Dispensings	None	None
Inclusion/Exclusion Criteria 2		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)	GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 3: CGRP mAb Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Comparison 4: CGRP mAb Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Inclusion/Exclusion Criteria 3				
Type of Criteria	Exclusion	Exclusion	Exclusion	Exclusion
Name of Include/Exclude Condition	Onabotulinum Toxin	CGRP Inhibitors	triptans	CGRP Inhibitors
Evaluation Period Start	-183 days	-183 days	-183 days	-183 days
Evaluation Period End	Day 0	Day 0	Day 0	Day 0
Care Setting and Diagnosis Position Requirements	None	None	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1	1	1
Additional Inclusion/Exclusion Criteria				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	Cancer Diagnosis except non-melanoma skin cancer		Cancer Diagnosis except non-melanoma skin cancer	
Evaluation Period Start	-183 days		-183 days	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 3: CGRP mAb Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome		Comparison 4: CGRP mAb Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Additional Inclusion/Exclusion Criteria				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)		Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)	
Evaluation Period Start	-183 days		-183 days	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	IP*		IP*	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
At Risk Time				
End At-Risk Period at Evidence of	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end
Blackout Period	None		None	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 3: CGRP mAb Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	Comparison 4: CGRP mAb Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
Risk Window Interval Start	Day 0	Day 0

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 3: CGRP mAb Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	Comparison 4: CGRP mAb Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
Event/Outcome		
Event/Outcome	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia) AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia) AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization
Incident Event Washout Period	183 days	183 days
Event/Outcome Care Setting and	IP*	IP*
Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Event De-duplication	De-duplicate occurrences of the same event code and code type on	De-duplicate occurrences of the same event code and code type on
Forced Supply to Attach to Dispensings	N/A	N/A

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 3: CGRP mAb Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	Comparison 4: CGRP mAb Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
Propensity Score Model Parameters		
Categorical Variables to Include in Propensity Score Model	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications (Triptans/Ditans covariate NOT included in model for this cohort)
Continuous Variables to Include in Propensity Score	Age	Age
Firth Logistic Intercept Correct (FLIC) Method	No	No
Zero Cell Correction	Yes	Yes
Truncation for ICD-9 or ICD-10 Diagnosis Codes	N/A	N/A
Should Output Include Kaplan Meier Plots?	Yes	*No *Yes

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 3: CGRP mAb Exposure Onabotulinum Toxin Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome	Comparison 4: CGRP mAb Exposure Triptans/DHE Comparator Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications Outcome
A. PS Matching		
Matching Algorithm Type	Fixed ratio matching	Fixed ratio matching
Maximum Number of Matches	1:1	1:1
Matching Caliper Settings	0.05	0.05
Return Unconditional Analysis	Unconditional analysis (create risk sets not stratified by matchID)	Unconditional analysis (create risk sets not stratified by matchID)
International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®.		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 5: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Constipation Outcome		Comparison 6: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Constipation Outcome	
Logic				
Run Number	**r01**		**r01**	
Drug/Exposure				
Index Exposure/Comparator	Small Molecule CGRP Antagonists	Onabotulinum Toxin	Small Molecule CGRP Antagonists	Triptans/DHE
Cohort Definition	First valid exposure episodes during query period;		First valid exposure episodes during query period;	
Incidence Exposure Washout Period	183 days		183 days	
Incident with Respect to:	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE
Exclude Evidence of Days Supply if Exposure Washout Include Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Stockpiling	See Appendix N		See Appendix N	
Build Episodes on Point Exposure?	No		No	
Treatment Episode Gap	45 days		45 days	
Exposure Episode Extension	45 days		45 days	
Minimum Exposure Episode Duration	1 day		1 day	
Minimum Exposure Episode Days Supplied	1 day		1 day	
Maximum Exposure Episode Duration	None (N/A)		None (N/A)	
Minimum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Maximum Cumulative Dose of Medication	None (N/A)		None (N/A)	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 5: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Constipation Outcome	Comparison 6: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Constipation Outcome
Incidence Criteria Care Setting and Diagnosis Position Requirements	Any Caresetting	Any Caresetting
Forced Supply to Attach to Dispensings	None (N/A)	None (N/A)
Create Baseline Table?	Yes	Yes
Inclusion/Exclusion Criteria 1		
Type of Criteria	Inclusion	Inclusion
Name of Include/Exclude Condition	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)
Evaluation Period Start	-183 days (or ever during study period for Triptan)	-183 days (or ever during study period for Triptan)
Evaluation Period End	Day 0	Day 0
Inclusion/Exclusion Criteria Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	a) 2 b) 1 c) 1	a) 2 b) 1 c) 1
Forced Supply to Attach to Dispensings	None	None
Inclusion/Exclusion Criteria 2		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 5: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Constipation Outcome		Comparison 6: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Constipation Outcome	
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)		GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)	
Evaluation Period Start	-183 days		-183 days	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Inclusion/Exclusion Criteria 3				
Type of Criteria	Exclusion	Exclusion	Exclusion	Exclusion
Name of Include/Exclude Condition	Onabotulinum Toxin	CGRP Inhibitors	triptans	CGRP Inhibitors
Evaluation Period Start	-183 days	-183 days	-183 days	-183 days
Evaluation Period End	Day 0	Day 0	Day 0	Day 0
Care Setting and Diagnosis Position Requirements	None	None	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 5: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Constipation Outcome	Comparison 6: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Constipation Outcome
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Cancer Diagnosis except non-melanoma skin cancer	Cancer Diagnosis except non-melanoma skin cancer
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A	N/A
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	IP*	IP*
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
At Risk Time		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 5: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Constipation Outcome		Comparison 6: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Constipation Outcome	
End At-Risk Period at Evidence of	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end
Blackout Period	None		None	
Risk Window Interval Start	Day 0		Day 0	
Event/Outcome				
Event/Outcome	Constipation AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization		Constipation AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization	
Incident Event Washout Period	183 days		183 days	
Event/Outcome Care Setting and Diagnosis Position Requirements	IP*		IP*	
Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Washout lookback period should search for evidence of days supply		Washout lookback period should search for evidence of days supply	
Event De-duplication	De-duplicate occurrences of the same event code and code type on the same day		De-duplicate occurrences of the same event code and code type on the same day	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 5: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Constipation Outcome	Comparison 6: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Constipation Outcome
Forced Supply to Attach to Dispensings	N/A	N/A
Propensity Score Model Parameters		
Categorical Variables to Include in Propensity Score Model	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications (Triptans/Ditans covariate NOT included in model for this cohort)
Continuous Variables to Include in Propensity Score	Age	Age
Firth Logistic Intercept Correct (FLIC) Method	No	No
Zero Cell Correction	Yes	Yes
Truncation for ICD-9 or ICD-10 Diagnosis Codes	N/A	N/A
Should Output Include Kaplan Meier Plots?	Yes	*No *Yes

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 5: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Constipation Outcome	Comparison 6: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Constipation Outcome
A. PS Matching		
Matching Algorithm Type	Fixed ratio matching	Fixed ratio matching
Maximum Number of Matches	1:1	1:1
Matching Caliper Settings	0.05	0.05
Return Unconditional Analysis	Unconditional analysis (create risk sets not stratified by matchID)	Unconditional analysis (create risk sets not stratified by matchID)
International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®.		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 7: CGRP mAb Exposure Onabotulinum Toxin Comparator Constipation Outcome		Comparison 8: CGRP mAb Exposure Triptans/DHE Comparator Constipation Outcome	
Logic				
Run Number	**r02**		**r02**	
Drug/Exposure				
Index Exposure/Comparator	mAb CGRP	Onabotulinum Toxin	mAb CGRP	Triptans/DHE
Cohort Definition	First valid exposure episodes during query period;		First valid exposure episodes during query period;	
Incidence Exposure Washout Period	183 days		183 days	
Incident with Respect to:	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE
Exclude Evidence of Days Supply if Exposure Washout Include Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Stockpiling	See Appendix N		See Appendix N	
Build Episodes on Point Exposure?	No		No	
Treatment Episode Gap	120 days		120 days	
Exposure Episode Extension	120 days		120 days	
Minimum Exposure Episode Duration	1 day		1 day	
Minimum Exposure Episode Days Supplied	1 day		1 day	
Maximum Exposure Episode Duration	None (N/A)		None (N/A)	
Minimum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Maximum Cumulative Dose of Medication	None (N/A)		None (N/A)	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 7: CGRP mAb Exposure Onabotulinum Toxin Comparator Constipation Outcome	Comparison 8: CGRP mAb Exposure Triptans/DHE Comparator Constipation Outcome
Incidence Criteria Care Setting and Diagnosis Position Requirements	Any Caresetting	Any Caresetting
Forced Supply to Attach to Dispensings	None (N/A)	None (N/A)
Create Baseline Table?	Yes	Yes
Inclusion/Exclusion Criteria 1		
Type of Criteria	Inclusion	Inclusion
Name of Include/Exclude Condition	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)
Evaluation Period Start	-183 days (or ever during study period for Triptan)	-183 days (or ever during study period for Triptan)
Evaluation Period End	Day 0	Day 0
Inclusion/Exclusion Criteria Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	a) 2 b) 1 c) 1	a) 2 b) 1 c) 1
Forced Supply to Attach to Dispensings	None	None

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 7: CGRP mAb Exposure Onabotulinum Toxin Comparator Constipation Outcome		Comparison 8: CGRP mAb Exposure Triptans/DHE Comparator Constipation Outcome	
Inclusion/Exclusion Criteria 2				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)		GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)	
Evaluation Period Start	-183 days		-183 days	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Inclusion/Exclusion Criteria 3				
Type of Criteria	Exclusion	Exclusion	Exclusion	Exclusion
Name of Include/Exclude Condition	Onabotulinum Toxin	CGRP Inhibitors	triptans	CGRP Inhibitors
Evaluation Period Start	-183 days	-183 days	-183 days	-183 days
Evaluation Period End	Day 0	Day 0	Day 0	Day 0
Care Setting and Diagnosis	None	None	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 7: CGRP mAb Exposure Onabotulinum Toxin Comparator Constipation Outcome	Comparison 8: CGRP mAb Exposure Triptans/DHE Comparator Constipation Outcome
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Cancer Diagnosis except non-melanoma skin cancer	Cancer Diagnosis except non-melanoma skin cancer
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A	N/A
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	IP*	IP*
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 7: CGRP mAb Exposure Onabotulinum Toxin Comparator Constipation Outcome		Comparison 8: CGRP mAb Exposure Triptans/DHE Comparator Constipation Outcome	
At Risk Time				
End At-Risk Period at Evidence of	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end
Blackout Period	None		None	
Risk Window Interval Start	Day 0		Day 0	
Event/Outcome				
Event/Outcome	Constipation AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization		Constipation AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization	
Incident Event Washout Period	183 days		183 days	
Event/Outcome Care Setting and Diagnosis Position Requirements	IP*		IP*	
Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Washout lookback period should search for evidence of days supply		Washout lookback period should search for evidence of days supply	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 7: CGRP mAb Exposure Onabotulinum Toxin Comparator Constipation Outcome	Comparison 8: CGRP mAb Exposure Triptans/DHE Comparator Constipation Outcome
Event De-duplication	De-duplicate occurrences of the same event code and code type on the same day	De-duplicate occurrences of the same event code and code type on the same day
Forced Supply to Attach to Dispensings	N/A	N/A
Propensity Score Model Parameters		
Categorical Variables to Include in Propensity Score Model	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications (Triptans/Ditans covariate NOT included in model for this cohort)
Continuous Variables to Include in Propensity Score	Age	Age
Firth Logistic Intercept Correct (FLIC) Method	No	No
Zero Cell Correction	Yes	Yes
Truncation for ICD-9 or ICD-10 Diagnosis Codes	N/A	N/A
Should Output Include Kaplan Meier Plots?	Yes	*No *Yes

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 7: CGRP mAb Exposure Onabotulinum Toxin Comparator Constipation Outcome	Comparison 8: CGRP mAb Exposure Triptans/DHE Comparator Constipation Outcome
A. PS Matching		
Matching Algorithm Type	Fixed ratio matching	Fixed ratio matching
Maximum Number of Matches	1:1	1:1
Matching Caliper Settings	0.05	0.05
Return Unconditional Analysis	Unconditional analysis (create risk sets not stratified by matchID)	Unconditional analysis (create risk sets not stratified by matchID)
International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®.		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 9: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome		Comparison 10: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator GI Hypomotility Outcome	
Logic				
Run Number	**r01**		**r01**	
Drug/Exposure				
Index Exposure/Comparator	Small Molecule CGRP Antagonists	Onabotulinum Toxin	Small Molecule CGRP Antagonists	Triptans/DHE
Cohort Definition	First valid exposure episodes during query period;		First valid exposure episodes during query period;	
Incidence Exposure Washout Period	183 days		183 days	
Incident with Respect to:	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE
Exclude Evidence of Days Supply if Exposure Washout Include Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Stockpiling	See Appendix N		See Appendix N	
Build Episodes on Point Exposure?	No		No	
Treatment Episode Gap	45 days		45 days	
Exposure Episode Extension	45 days		45 days	
Minimum Exposure Episode Duration	1 day		1 day	
Minimum Exposure Episode Days Supplied	1 day		1 day	
Maximum Exposure Episode Duration	None (N/A)		None (N/A)	
Minimum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Maximum Cumulative Dose of Medication	None (N/A)		None (N/A)	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 9: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome	Comparison 10: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator GI Hypomotility Outcome
Incidence Criteria Care Setting and Diagnosis Position Requirements	Any Caresetting	Any Caresetting
Forced Supply to Attach to Dispensings	None (N/A)	None (N/A)
Create Baseline Table?	Yes	Yes
Inclusion/Exclusion Criteria 1		
Type of Criteria	Inclusion	Inclusion
Name of Include/Exclude Condition	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)
Evaluation Period Start	-183 days (or ever during study period for Triptan)	-183 days (or ever during study period for Triptan)
Evaluation Period End	Day 0	Day 0
Inclusion/Exclusion Criteria Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	a) 2 b) 1 c) 1	a) 2 b) 1 c) 1
Forced Supply to Attach to Dispensings	None	None

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 9: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome		Comparison 10: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator GI Hypomotility Outcome	
Inclusion/Exclusion Criteria 2				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)		GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)	
Evaluation Period Start	-183 days		-183 days	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Inclusion/Exclusion Criteria 3				
Type of Criteria	Exclusion	Exclusion	Exclusion	Exclusion
Name of Include/Exclude Condition	Onabotulinum Toxin	CGRP Inhibitors	triptans	CGRP Inhibitors
Evaluation Period Start	-183 days	-183 days	-183 days	-183 days
Evaluation Period End	Day 0	Day 0	Day 0	Day 0
Care Setting and Diagnosis Position Requirements	None	None	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 9: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome	Comparison 10: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator GI Hypomotility Outcome
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Cancer Diagnosis except non-melanoma skin cancer	Cancer Diagnosis except non-melanoma skin cancer
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A	N/A
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	IP*	IP*
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 9: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome		Comparison 10: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator GI Hypomotility Outcome	
At Risk Time				
End At-Risk Period at Evidence of	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end
Blackout Period	None		None	
Risk Window Interval Start	Day 0		Day 0	
Event/Outcome				
Event/Outcome	GI Hypomotility AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization		GI Hypomotility AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization	
Incident Event Washout Period	183 days		183 days	
Event/Outcome Care Setting and Diagnosis Position Requirements	IP*		IP*	
Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Washout lookback period should search for evidence of days supply		Washout lookback period should search for evidence of days supply	
Event De-duplication	De-duplicate occurrences of the same event code and code type on the same day		De-duplicate occurrences of the same event code and code type on the same day	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 9: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome	Comparison 10: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator GI Hypomotility Outcome
Forced Supply to Attach to Dispensings	N/A	N/A
Propensity Score Model Parameters		
Categorical Variables to Include in Propensity Score Model	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications (Triptans/Ditans covariate NOT included in model for this cohort)
Continuous Variables to Include in Propensity Score	Age	Age
Firth Logistic Intercept Correct (FLIC) Method	No	No
Zero Cell Correction	Yes	Yes
Truncation for ICD-9 or ICD-10 Diagnosis Codes	N/A	N/A
Should Output Include Kaplan Meier Plots?	Yes	*No *Yes

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 9: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome	Comparison 10: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator GI Hypomotility Outcome
A. PS Matching		
Matching Algorithm Type	Fixed ratio matching	Fixed ratio matching
Maximum Number of Matches	1:1	1:1
Matching Caliper Settings	0.05	0.05
Return Unconditional Analysis	Unconditional analysis (create risk sets not stratified by matchID)	Unconditional analysis (create risk sets not stratified by matchID)
International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®.		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 11: CGRP mAb Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome		Comparison 12: CGRP mAb Exposure Triptans/DHE Comparator GI Hypomotility Outcome	
Logic				
Run Number	**r02**		**r02**	
Drug/Exposure				
Index Exposure/Comparator	mAb CGRP	Onabotulinum Toxin	mAb CGRP	Triptans/DHE
Cohort Definition	First valid exposure episodes during query period;		First valid exposure episodes during query period;	
Incidence Exposure Washout Period	183 days		183 days	
Incident with Respect to:	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE
Exclude Evidence of Days Supply if Exposure Washout Include Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Stockpiling	See Appendix N		See Appendix N	
Build Episodes on Point Exposure?	No		No	
Treatment Episode Gap	120 days		120 days	
Exposure Episode Extension	120 days		120 days	
Minimum Exposure Episode Duration	1 day		1 day	
Minimum Exposure Episode Days Supplied	1 day		1 day	
Maximum Exposure Episode Duration	None (N/A)		None (N/A)	
Minimum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Maximum Cumulative Dose of Medication	None (N/A)		None (N/A)	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 11: CGRP mAb Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome	Comparison 12: CGRP mAb Exposure Triptans/DHE Comparator GI Hypomotility Outcome
Incidence Criteria Care Setting and Diagnosis Position Requirements	Any Caresetting	Any Caresetting
Forced Supply to Attach to Dispensings	None (N/A)	None (N/A)
Create Baseline Table?	Yes	Yes
Inclusion/Exclusion Criteria 1		
Type of Criteria	Inclusion	Inclusion
Name of Include/Exclude Condition	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)
Evaluation Period Start	-183 days (or ever during study period for Triptan)	-183 days (or ever during study period for Triptan)
Evaluation Period End	Day 0	Day 0
Inclusion/Exclusion Criteria Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	a) 2 b) 1 c) 1	a) 2 b) 1 c) 1
Forced Supply to Attach to Dispensings	None	None

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 11: CGRP mAb Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome		Comparison 12: CGRP mAb Exposure Triptans/DHE Comparator GI Hypomotility Outcome	
Inclusion/Exclusion Criteria 2				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	GI-related Illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)		GI-related Illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)	
Evaluation Period Start	-183 days		-183 days	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Inclusion/Exclusion Criteria 3				
Type of Criteria	Exclusion	Exclusion	Exclusion	Exclusion
Name of Include/Exclude Condition	Onabotulinum Toxin	CGRP Inhibitors	triptans	CGRP Inhibitors
Evaluation Period Start	-183 days	-183 days	-183 days	-183 days
Evaluation Period End	Day 0	Day 0	Day 0	Day 0
Care Setting and Diagnosis Position Requirements	None	None	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 11: CGRP mAb Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome	Comparison 12: CGRP mAb Exposure Triptans/DHE Comparator GI Hypomotility Outcome
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Cancer Diagnosis except non-melanoma skin cancer	Cancer Diagnosis except non-melanoma skin cancer
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A	N/A
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	IP*	IP*
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 11: CGRP mAb Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome		Comparison 12: CGRP mAb Exposure Triptans/DHE Comparator GI Hypomotility Outcome	
At Risk Time				
End At-Risk Period at Evidence of	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end
Blackout Period	None		None	
Risk Window Interval Start	Day 0		Day 0	
Event/Outcome				
Event/Outcome	GI Hypomotility AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization		GI Hypomotility AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization	
Incident Event Washout Period	183 days		183 days	
Event/Outcome Care Setting and Diagnosis Position Requirements	IP*		IP*	
Exclude Evidence of Days Supply if Event Washout	Washout lookback period should search for evidence of days supply		Washout lookback period should search for evidence of days supply	
Event De-duplication	De-duplicate occurrences of the same event code and code type on the same day		De-duplicate occurrences of the same event code and code type on the same day	
Forced Supply to Attach to Dispensings	N/A		N/A	
Propensity Score Model Parameters				

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 11: CGRP mAb Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome	Comparison 12: CGRP mAb Exposure Triptans/DHE Comparator GI Hypomotility Outcome
Categorical Variables to Include in Propensity Score Model	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications (Triptans/Ditans covariate NOT included in model for this cohort)
Continuous Variables to Include in Propensity Score	Age	Age
Firth Logistic Intercept Correct (FLIC) Method	No	No
Zero Cell Correction	Yes	Yes
Truncation for ICD-9 or ICD-10 Diagnosis Codes	N/A	N/A
Should Output Include Kaplan Meier Plots?	Yes	*No *Yes

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 11: CGRP mAb Exposure Onabotulinum Toxin Comparator GI Hypomotility Outcome	Comparison 12: CGRP mAb Exposure Triptans/DHE Comparator GI Hypomotility Outcome
A. PS Matching		
Matching Algorithm Type	Fixed ratio matching	Fixed ratio matching
Maximum Number of Matches	1:1	1:1
Matching Caliper Settings	0.05	0.05
Return Unconditional Analysis	Unconditional analysis (create risk sets not stratified by matchID)	Unconditional analysis (create risk sets not stratified by matchID)

International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®.

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 13: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome		Comparison 14: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome	
Logic				
Run Number	**r01**		**r01**	
Drug/Exposure				
Index Exposure/Comparator	Small Molecule CGRP Antagonists	Onabotulinum Toxin	Small Molecule CGRP Antagonists	Triptans/DHE
Cohort Definition	First valid exposure episodes during query period;		First valid exposure episodes during query period;	
Incidence Exposure Washout Period	183 days		183 days	
Incident with Respect to:	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE
Exclude Evidence of Days Supply if Exposure Washout Include Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Stockpiling	See Appendix N		See Appendix N	
Build Episodes on Point Exposure?	No		No	
Treatment Episode Gap	45 days		45 days	
Exposure Episode Extension	45 days		45 days	
Minimum Exposure Episode Duration	1 day		1 day	
Minimum Exposure Episode Days Supplied	1 day		1 day	
Maximum Exposure Episode Duration	None (N/A)		None (N/A)	
Minimum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Maximum Cumulative Dose of Medication	None (N/A)		None (N/A)	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 13: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome	Comparison 14: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome
Incidence Criteria Care Setting and Diagnosis Position Requirements	Any Caresetting	Any Caresetting
Forced Supply to Attach to Dispensings	None (N/A)	None (N/A)
Create Baseline Table?	Yes	Yes
Inclusion/Exclusion Criteria 1		
Type of Criteria	Inclusion	Inclusion
Name of Include/Exclude Condition	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)
Evaluation Period Start	-183 days (or ever during study period for Triptan)	-183 days (or ever during study period for Triptan)
Evaluation Period End	Day 0	Day 0
Inclusion/Exclusion Criteria Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	a) 2 b) 1 c) 1	a) 2 b) 1 c) 1
Forced Supply to Attach to Dispensings	None	None

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 13: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome		Comparison 14: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome	
Inclusion/Exclusion Criteria 2				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)		GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)	
Evaluation Period Start	-183 days		-183 days	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Inclusion/Exclusion Criteria 3				
Type of Criteria	Exclusion	Exclusion	Exclusion	Exclusion
Name of Include/Exclude Condition	Onabotulinum Toxin	CGRP Inhibitors	triptans	CGRP Inhibitors
Evaluation Period Start	-183 days	-183 days	-183 days	-183 days
Evaluation Period End	Day 0	Day 0	Day 0	Day 0
Care Setting and Diagnosis Position Requirements	None	None	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 13: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome	Comparison 14: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Cancer Diagnosis except non-melanoma skin cancer	Cancer Diagnosis except non-melanoma skin cancer
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A	N/A
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	IP*	IP*
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 13: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome		Comparison 14: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome	
At Risk Time				
End At-Risk Period at Evidence of	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end
Blackout Period	None		None	
Risk Window Interval Start	Day 0		Day 0	
Event/Outcome				
Event/Outcome	Paralytic ileus and intestinal obstruction without hernia AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization		Paralytic ileus and intestinal obstruction without hernia AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization	
Incident Event Washout Period	183 days		183 days	
Event/Outcome Care Setting and Diagnosis Position Requirements	IP*		IP*	
Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Washout lookback period should search for evidence of days supply		Washout lookback period should search for evidence of days supply	
Event De-duplication	De-duplicate occurrences of the same event code and code type on the same day		De-duplicate occurrences of the same event code and code type on the same day	
Forced Supply to Attach to Dispensings	N/A		N/A	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 13: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome	Comparison 14: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome
Propensity Score Model Parameters		
Categorical Variables to Include in Propensity Score Model	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications (Triptans/Ditans covariate NOT included in model for this cohort)
Continuous Variables to Include in Propensity Score	Age	Age
Firth Logistic Intercept Correct (FLIC) Method	No	No
Zero Cell Correction	Yes	Yes
Truncation for ICD-9 or ICD-10 Diagnosis Codes	N/A	N/A
Should Output Include Kaplan Meier Plots?	Yes	*No *Yes

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 13: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome	Comparison 14: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Paralytic Ileus and Intestinal Obstruction Without Hernia Outcome
A. PS Matching		
Matching Algorithm Type	Fixed ratio matching	Fixed ratio matching
Maximum Number of Matches	1:1	1:1
Matching Caliper Settings	0.05	0.05
Return Unconditional Analysis	Unconditional analysis (create risk sets not stratified by matchID)	Unconditional analysis (create risk sets not stratified by matchID)
International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®.		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 15: CGRP mAb Exposure Onabotulinum Toxin Comparator Paralytic ileus and intestinal obstruction without hernia Outcome		Comparison 16: CGRP mAb Exposure Triptans/DHE Comparator Paralytic ileus and intestinal obstruction without hernia Outcome	
Logic				
Run Number	**r02**		**r02**	
Drug/Exposure				
Index Exposure/Comparator	mAb CGRP	Onabotulinum Toxin	mAb CGRP	Triptans/DHE
Cohort Definition	First valid exposure episodes during query period;		First valid exposure episodes during query period;	
Incidence Exposure Washout Period	183 days		183 days	
Incident with Respect to:	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE
Exclude Evidence of Days Supply if Exposure Washout Include Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Stockpiling	See Appendix N		See Appendix N	
Build Episodes on Point Exposure?	No		No	
Treatment Episode Gap	120 days		120 days	
Exposure Episode Extension	120 days		120 days	
Minimum Exposure Episode Duration	1 day		1 day	
Minimum Exposure Episode Days Supplied	1 day		1 day	
Maximum Exposure Episode Duration	None (N/A)		None (N/A)	
Minimum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Maximum Cumulative Dose of Medication	None (N/A)		None (N/A)	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 15: CGRP mAb Exposure Onabotulinum Toxin Comparator Paralytic ileus and intestinal obstruction without hernia Outcome	Comparison 16: CGRP mAb Exposure Triptans/DHE Comparator Paralytic ileus and intestinal obstruction without hernia Outcome
Incidence Criteria Care Setting and Diagnosis Position Requirements	Any Caresetting	Any Caresetting
Forced Supply to Attach to Dispensings	None (N/A)	None (N/A)
Create Baseline Table?	Yes	Yes
Inclusion/Exclusion Criteria 1		
Type of Criteria	Inclusion	Inclusion
Name of Include/Exclude Condition	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)
Evaluation Period Start	-183 days (or ever during study period for Triptan)	-183 days (or ever during study period for Triptan)
Evaluation Period End	0	0
Inclusion/Exclusion Criteria Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	a) 2 b) 1 c) 1	a) 2 b) 1 c) 1
Forced Supply to Attach to Dispensings	None	None

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 15: CGRP mAb Exposure Onabotulinum Toxin Comparator Paralytic ileus and intestinal obstruction without hernia Outcome		Comparison 16: CGRP mAb Exposure Triptans/DHE Comparator Paralytic ileus and intestinal obstruction without hernia Outcome	
Inclusion/Exclusion Criteria 2				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)		GI-related illness (non-infective enteritis and colitis, irritable bowel syndrome, other functional intestinal disorders)	
Evaluation Period Start	-183 days		-183 days	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Inclusion/Exclusion Criteria 3				
Type of Criteria	Exclusion	Exclusion	Exclusion	Exclusion
Name of Include/Exclude Condition	Onabotulinum Toxin	CGRP Inhibitors	triptans	CGRP Inhibitors
Evaluation Period Start	-183 days	-183 days	-183 days	-183 days
Evaluation Period End	Day 0	Day 0	Day 0	Day 0
Care Setting and Diagnosis Position Requirements	None	None	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1	1	1
Additional Inclusion/Exclusion Criteria				

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 15: CGRP mAb Exposure Onabotulinum Toxin Comparator Paralytic ileus and intestinal obstruction without hernia Outcome	Comparison 16: CGRP mAb Exposure Triptans/DHE Comparator Paralytic ileus and intestinal obstruction without hernia Outcome
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Cancer Diagnosis except non-melanoma skin cancer	Cancer Diagnosis except non-melanoma skin cancer
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A	N/A
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)	Gastrointestinal Hypomotility, Constipation, or GI Dysmotility with Serious Complications (constipation OR GI hypomotility OR paralytic ileus and intestinal obstruction without hernia)
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	IP*	IP*
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 15: CGRP mAb Exposure Onabotulinum Toxin Comparator Paralytic ileus and intestinal obstruction without hernia Outcome		Comparison 16: CGRP mAb Exposure Triptans/DHE Comparator Paralytic ileus and intestinal obstruction without hernia Outcome	
At Risk Time				
End At-Risk Period at Evidence of	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end
Blackout Period	None		None	
Risk Window Interval Start	Day 0		Day 0	
Event/Outcome				
Event/Outcome	Paralytic ileus and intestinal obstruction without hernia AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization		Paralytic ileus and intestinal obstruction without hernia AND NOT colon/rectal cancer, ovarian cancer, malignant neoplasm of the genitourinary organs, Crohn's disease or ulcerative colitis, cancer of small intestine, malignant neoplasm of retroperitoneum/peritoneum, secondary malignant neoplasm of peritoneum, peritoneal adhesions in the same timeframe as the outcome hospitalization, AND NOT epigastric /upper quadrant pain with intestinal obstruction in the same timeframe as the outcome hospitalization, AND NOT abdominal surgeries in the two weeks prior to admission through hospitalization	
Incident Event Washout Period	183 days		183 days	
Event/Outcome Care Setting and Diagnosis Position Requirements	IP*		IP*	
Exclude Evidence of Days Supply if Event Washout Includes Dispensings	Washout lookback period should search for evidence of days supply		Washout lookback period should search for evidence of days supply	
Event De-duplication	De-duplicate occurrences of the same event code and code type on the same day		De-duplicate occurrences of the same event code and code type on the same day	
Forced Supply to Attach to Dispensings	N/A		N/A	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 15: CGRP mAb Exposure Onabotulinum Toxin Comparator Paralytic ileus and intestinal obstruction without hernia Outcome	Comparison 16: CGRP mAb Exposure Triptans/DHE Comparator Paralytic ileus and intestinal obstruction without hernia Outcome
Propensity Score Model Parameters		
Categorical Variables to Include in Propensity Score Model	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications (Triptans/Ditans covariate NOT included in model for this cohort)
Continuous Variables to Include in Propensity Score	Age	Age
Firth Logistic Intercept Correct (FLIC) Method	No	No
Zero Cell Correction	Yes	Yes
Truncation for ICD-9 or ICD-10 Diagnosis Codes	N/A	N/A
Should Output Include Kaplan Meier Plots?	Yes	*No *Yes

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 15: CGRP mAb Exposure Onabotulinum Toxin Comparator Paralytic ileus and intestinal obstruction without hernia Outcome	Comparison 16: CGRP mAb Exposure Triptans/DHE Comparator Paralytic ileus and intestinal obstruction without hernia Outcome
A. PS Matching		
Matching Algorithm Type	Fixed ratio matching	Fixed ratio matching
Maximum Number of Matches	1:1	1:1
Matching Caliper Settings	0.05	0.05
Return Unconditional Analysis	Unconditional analysis (create risk sets not stratified by matchID)	Unconditional analysis (create risk sets not stratified by matchID)
International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®.		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 17: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome		Comparison 18: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome	
Logic				
Run Number	**r01**		**r01**	
Drug/Exposure				
Index Exposure/Comparator	Small Molecule CGRP Antagonists	Onabotulinum Toxin	Small Molecule CGRP Antagonists	Triptans/DHE
Cohort Definition	First valid exposure episodes during query period;		First valid exposure episodes during query period;	
Incidence Exposure Washout Period	183 days		183 days	
Incident with Respect to:	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE
Exclude Evidence of Days Supply if Exposure Washout Include Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Stockpiling	See Appendix N		See Appendix N	
Build Episodes on Point Exposure?	No		No	
Treatment Episode Gap	45 days		45 days	
Exposure Episode Extension	45 days		45 days	
Minimum Exposure Episode Duration	1 day		1 day	
Minimum Exposure Episode Days Supplied	1 day		1 day	
Maximum Exposure Episode Duration	None (N/A)		None (N/A)	
Minimum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Maximum Cumulative Dose of Medication	None (N/A)		None (N/A)	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 17: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome	Comparison 18: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome
Incidence Criteria Care Setting and Diagnosis Position Requirements	Any Caresetting	Any Caresetting
Forced Supply to Attach to Dispensings	None (N/A)	None (N/A)
Create Baseline Table?	Yes	Yes
Inclusion/Exclusion Criteria 1		
Type of Criteria	Inclusion	Inclusion
Name of Include/Exclude Condition	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)
Evaluation Period Start	-183 days (or ever during study period for Triptan)	-183 days (or ever during study period for Triptan)
Evaluation Period End	Day 0	Day 0
Inclusion/Exclusion Criteria Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	a) 2 b) 1 c) 1	a) 2 b) 1 c) 1
Forced Supply to Attach to Dispensings	None	None

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 17: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome		Comparison 18: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome	
Inclusion/Exclusion Criteria 2				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	Traumatic Brain Injury		Traumatic Brain Injury	
Evaluation Period Start	-183 days		-183 days	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Inclusion/Exclusion Criteria 3				
Type of Criteria	Exclusion	Exclusion	Exclusion	Exclusion
Name of Include/Exclude Condition	Onabotulinum Toxin	CGRP Inhibitors	triptans	CGRP Inhibitors
Evaluation Period Start	-183 days	-183 days	-183 days	-183 days
Evaluation Period End	Day 0	Day 0	Day 0	Day 0
Care Setting and Diagnosis Position Requirements	None	None	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1	1	1
Additional Inclusion/Exclusion Criteria				

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 17: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome	Comparison 18: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Cancer Diagnosis except non-melanoma skin cancer	Cancer Diagnosis except non-melanoma skin cancer
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A	N/A
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Depression OR intentional self-harm diagnosis	Depression OR intentional self-harm diagnosis
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	Diagnosis of depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder in inpatient care setting, primary position Diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or emergency department	Diagnosis of depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder in inpatient care setting, primary position Diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or emergency department
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
At Risk Time		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 17: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome		Comparison 18: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome	
End At-Risk Period at Evidence of	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end
Blackout Period	None		None	
Risk Window Interval Start	Day 0		Day 0	
Event/Outcome				
Event/Outcome	Intentional Self-Harm (Pennap Algorithm: Diagnosis of depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder in inpatient care setting and Diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or emergency department in the same hospitalization)		Intentional Self-Harm (Pennap Algorithm: Diagnosis of depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder in inpatient care setting and Diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or emergency department in the same hospitalization)	
Incident Event Washout Period	183 days		183 days	
Event/Outcome Care Setting and Diagnosis Position Requirements	Hospitalized Depression: IPP for depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder Self Harm: IP* or ED* for diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm		Hospitalized Depression: IPP for depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder Self Harm: IP* or ED* for diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm	
Exclude Evidence of Days Supply if Event Washout Includes Dispensings	N/A		N/A	
Event De-duplication	De-duplicate occurrences of the same event code and code type on the same day		De-duplicate occurrences of the same event code and code type on the same day	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 17: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome	Comparison 18: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome
Forced Supply to Attach to Dispensings	N/A	N/A
Propensity Score Model Parameters		
Categorical Variables to Include in Propensity Score Model	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications (Triptans/Ditans covariate NOT included in model for this cohort)
Continuous Variables to Include in Propensity Score	Age	Age
Firth Logistic Intercept Correct (FLIC) Method	No	No
Zero Cell Correction	Yes	Yes
Truncation for ICD-9 or ICD-10 Diagnosis Codes	N/A	N/A
Should Output Include Kaplan Meier Plots?	Yes	*No *Yes

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 17: Small Molecule CGRP Antagonists Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome	Comparison 18: Small Molecule CGRP Antagonists Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome
A. PS Matching		
Matching Algorithm Type	Fixed ratio matching	Fixed ratio matching
Maximum Number of Matches	1:1	1:1
Matching Caliper Settings	0.05	0.05
Return Unconditional Analysis	Unconditional analysis (create risk sets not stratified by matchID)	Unconditional analysis (create risk sets not stratified by matchID)
International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®.		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 19: CGRP mAb Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome		Comparison 20: CGRP mAb Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome	
Logic				
Run Number	**r02**		**r02**	
Drug/Exposure				
Index Exposure/Comparator	mAb CGRP	Onabotulinum Toxin	mAb CGRP	Triptans/DHE
Cohort Definition	First valid exposure episodes during query period;		First valid exposure episodes during query period;	
Incidence Exposure Washout Period	183 days		183 days	
Incident with Respect to:	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Onabotulinum Toxin	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE	All CGRP (Small Molecule CGRP Antagonists and mAb) and Triptans/DHE
Exclude Evidence of Days Supply if Exposure Washout Include Dispensings	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply	Washout lookback period should search for evidence of days supply
Stockpiling	See Appendix N		See Appendix N	
Build Episodes on Point Exposure?	No		No	
Treatment Episode Gap	120 days		120 days	
Exposure Episode Extension	120 days		120 days	
Minimum Exposure Episode Duration	1 day		1 day	
Minimum Exposure Episode Days Supplied	1 day		1 day	
Maximum Exposure Episode Duration	None (N/A)		None (N/A)	
Minimum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Maximum Cumulative Dose of Medication	None (N/A)		None (N/A)	
Incidence Criteria Care Setting and Diagnosis Position Requirements	Any Caresetting		Any Caresetting	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 19: CGRP mAb Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome	Comparison 20: CGRP mAb Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome
Forced Supply to Attach to Dispensings	None (N/A)	None (N/A)
Create Baseline Table?	Yes	Yes
Inclusion/Exclusion Criteria 1		
Type of Criteria	Inclusion	Inclusion
Name of Include/Exclude Condition	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)	Evidence of Migraine: a) ≥2 migraine diagnoses (-183,0) OR b) ≥1 migraine diagnoses (-183,0) AND Triptan dispensing during study period OR c) ≥1 migraine diagnoses (-183,0) AND neurology encounter (via plus programming)
Evaluation Period Start	-183 days (or ever during study period for Triptan)	-183 days (or ever during study period for Triptan)
Evaluation Period End	Day 0	Day 0
Inclusion/Exclusion Criteria Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	Evaluation period should search for evidence of days supply	Evaluation period should search for evidence of days supply
Number of Instances the Criteria Should be Found in the Evaluation Period	a) 2 b) 1 c) 1	a) 2 b) 1 c) 1
Forced Supply to Attach to Dispensings	None	None

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 19: CGRP mAb Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome		Comparison 20: CGRP mAb Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome	
Inclusion/Exclusion Criteria 2				
Type of Criteria	Exclusion		Exclusion	
Name of Include/Exclude Condition	Traumatic Brain Injury		Traumatic Brain Injury	
Evaluation Period Start	-183 days		-183 days	
Evaluation Period End	-1 day		-1 day	
Care Setting and Diagnosis Position Requirements	None		None	
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A		N/A	
Number of Instances the Criteria Should be Found in the Evaluation Period	1		1	
Inclusion/Exclusion Criteria 3				
Type of Criteria	Exclusion	Exclusion	Exclusion	Exclusion
Name of Include/Exclude Condition	Onabotulinum Toxin	CGRP Inhibitors	triptans	CGRP Inhibitors
Evaluation Period Start	-183 days	-183 days	-183 days	-183 days
Evaluation Period End	Day 0	Day 0	Day 0	Day 0
Care Setting and Diagnosis Position Requirements	None	None	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes Dispensings	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date	Evaluation period should search for evidence of days supply	*Evaluation period should search for evidence of days supply; *Evaluation period should search for only evidence of a dispensing date
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1	1	1

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 19: CGRP mAb Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome	Comparison 20: CGRP mAb Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Cancer Diagnosis except non-melanoma skin cancer	Cancer Diagnosis except non-melanoma skin cancer
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	None	None
Exclude Evidence of Days Supply if Inclusion/Exclusion Evaluation Period Includes	N/A	N/A
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
Additional Inclusion/Exclusion Criteria		
Type of Criteria	Exclusion	Exclusion
Name of Include/Exclude Condition	Depression OR intentional self-harm diagnosis	Depression OR intentional self-harm diagnosis
Evaluation Period Start	-183 days	-183 days
Evaluation Period End	-1 day	-1 day
Care Setting and Diagnosis Position Requirements	Diagnosis of depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder in inpatient care setting, primary position Diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or emergency department	Diagnosis of depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder in inpatient care setting, primary position Diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or emergency department
Number of Instances the Criteria Should be Found in the Evaluation Period	1	1
At Risk Time		

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 19: CGRP mAb Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome		Comparison 20: CGRP mAb Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome	
End At-Risk Period at Evidence of	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end	*Death; *DP end date; *Query end date; *Occurence of an exposure or event; *Treatment switch or end
Blackout Period	None		None	
Risk Window Interval Start	Day 0		Day 0	
Event/Outcome				
Event/Outcome	Intentional Self-Harm (Pennap Algorithm: Diagnosis of depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder in inpatient care setting and Diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or emergency department in the same hospitalization)		Intentional Self-Harm (Pennap Algorithm: Diagnosis of depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder in inpatient care setting and Diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or emergency department in the same hospitalization)	
Incident Event Washout Period	183 days		183 days	
Event/Outcome Care Setting and Diagnosis Position Requirements	Hospitalized Depression: IPP for depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder Self Harm: IP* or ED* for diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm		Hospitalized Depression: IPP for depression, personality disorder, mania, adjustment reaction, or unspecified non-psychotic mental disorder Self Harm: IP* or ED* for diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm	
Exclude Evidence of Days Supply if Event Washout Includes Dispensings	N/A		N/A	
Event De-duplication	De-duplicate occurrences of the same event code and code type on the same day		De-duplicate occurrences of the same event code and code type on the same day	

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 19: CGRP mAb Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome	Comparison 20: CGRP mAb Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome
Forced Supply to Attach to Dispensings	N/A	N/A
Propensity Score Model Parameters		
Categorical Variables to Include in Propensity Score Model	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications	Sex, Race, Year Assessed during enrollment window: body mass index (BMI), acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance abuse disorder, depression, bipolar, anxiety, behavioral disorders other psychological disorders. Other medications (Triptans/Ditans covariate NOT included in model for this cohort)
Continuous Variables to Include in Propensity Score	Age	Age
Firth Logistic Intercept Correct (FLIC) Method	No	No
Zero Cell Correction	Yes	Yes
Truncation for ICD-9 or ICD-10 Diagnosis Codes	N/A	N/A
Should Output Include Kaplan Meier Plots?	Yes	*No *Yes

Appendix K. Specifications Defining Cohort Parameters in this Request (Continued)

	Comparison 19: CGRP mAb Exposure Onabotulinum Toxin Comparator Intentional Self-Harm Outcome	Comparison 20: CGRP mAb Exposure Triptans/DHE Comparator Intentional Self-Harm Outcome
A. PS Matching		
Matching Algorithm Type	Fixed ratio matching	Fixed ratio matching
Maximum Number of Matches	1:1	1:1
Matching Caliper Settings	0.05	0.05
Return Unconditional Analysis	Unconditional analysis (create risk sets not stratified by matchID)	Unconditional analysis (create risk sets not stratified by matchID)
International Classification of Diseases, Ninth Revision (ICD-9), International Classification of Diseases, Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and CPT (Current Procedural Terminology) codes are provided by Optum360. National Drug Codes (NDCs) are checked against FirstDataBank's FDBMedKnowledge®.		

N/A: Not applicable

Appendix L. Specifications Defining Covariate Parameters in this Request

Baseline Characteristics

Covariate Name	Covariate Number	Code Category	Care Setting and Diagnosis Position Requirements	Covariate Evaluation Period Start	Covariate Evaluation Period End	Number of Instances the Covariate Should be Found in Evaluation Period	Lookback Period Date Only
Acute Myocardial Infarction	**1**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Glaucoma	**2**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Cataract	**3**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Hip/Pelvic Fracture	**4**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Alzheimer's Disease	**5**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Atrial Fibrillation	**6**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Diabetes	**7**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Hyperlipidemia	**8**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Heart Failure/Non-Ischemic Heart Disease	**9**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Hypertension	**10**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Ischemic Heart Disease	**11**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Rheumatoid Arthritis/Osteoarthritis	**12**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Stroke/Transient Ischemic Attack (TIA) (Inclusion)	**13**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Stroke/TIA (Exclusion)	**14**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Anemia	**15**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Asthma	**16**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Benign Prostatic Hyperplasia (Inclusion)	**17**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Benign Prostatic Hyperplasia (Exclusion)	**18**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Chronic Kidney Disease	**19**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N

Appendix L. Specifications Defining Covariate Parameters in this Request

Baseline Characteristics

Covariate Name	Covariate Number	Code Category	Care Setting and Diagnosis Position Requirements	Covariate Evaluation Period Start	Covariate Evaluation Period End	Number of Instances the Covariate Should be Found in Evaluation Period	Lookback Period Date Only
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis	20	Diagnosis code	Any	-183 days	-1 day	1	N
Osteoporosis	21	Diagnosis code	Any	-183 days	-1 day	1	N
Depression, Bipolar or Other Mood Disorders	22	Diagnosis code	Any	-183 days	-1 day	1	N
Hypothyroidism	23	Diagnosis code	Any	-183 days	-1 day	1	N
Pneumonia	24	Diagnosis code	Any	-183 days	-1 day	1	N
Parkinson's Disease	25	Diagnosis code	Any	-183 days	-1 day	1	N
Non-Alzheimer's Dementia	26	Diagnosis code	Any	-183 days	-1 day	1	N
Sleep Disorder	27	Diagnosis code	Any	-183 days	-1 day	1	N
Substance Use Disorder	28	Diagnosis code, Procedure code, Drug code	Any	-183 days	-1 day	1	N
Anxiety	29	Diagnosis code	Any	-183 days	-1 day	1	N
Behavioral Disorders	30	Diagnosis code	Any	-183 days	-1 day	1	N
Sympathomimetics/Alpha-1 Agonists	31	Drug code, Procedure code	Any	-183 days	-1 day	1	N
Ergot Derivatives and Methysergide	32	Drug code, Procedure code	Any	-183 days	-1 day	1	N
Triptans/Ditans	33	Drug code, Procedure code	Any	-183 days	-1 day	1	N
Antihypertensives	34	Drug code, Procedure code	Any	-183 days	-1 day	1	N
Major Surgical Procedure	35	Procedure code	Any	-183 days	-1 day	1	N

Appendix L. Specifications Defining Covariate Parameters in this Request

Baseline Characteristics

Covariate Name	Covariate Number	Code Category	Care Setting and Diagnosis Position Requirements	Covariate Evaluation Period Start	Covariate Evaluation Period End	Number of Instances the Covariate Should be Found in Evaluation Period	Lookback Period Date Only
Stroke/TIA	**36**	**Complex covariate (13 and not 14)**	**Any**	-183 days	-1 day	1	N
Benign Prostatic Hyperplasia	**37**	**Complex covariate (17 and not 18)**	**Any**	-183 days	-1 day	1	N
BMI Obese or Overweight	**38**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N
Other Psychological Disorders	**39**	**Diagnosis code**	**Any**	-183 days	-1 day	1	N

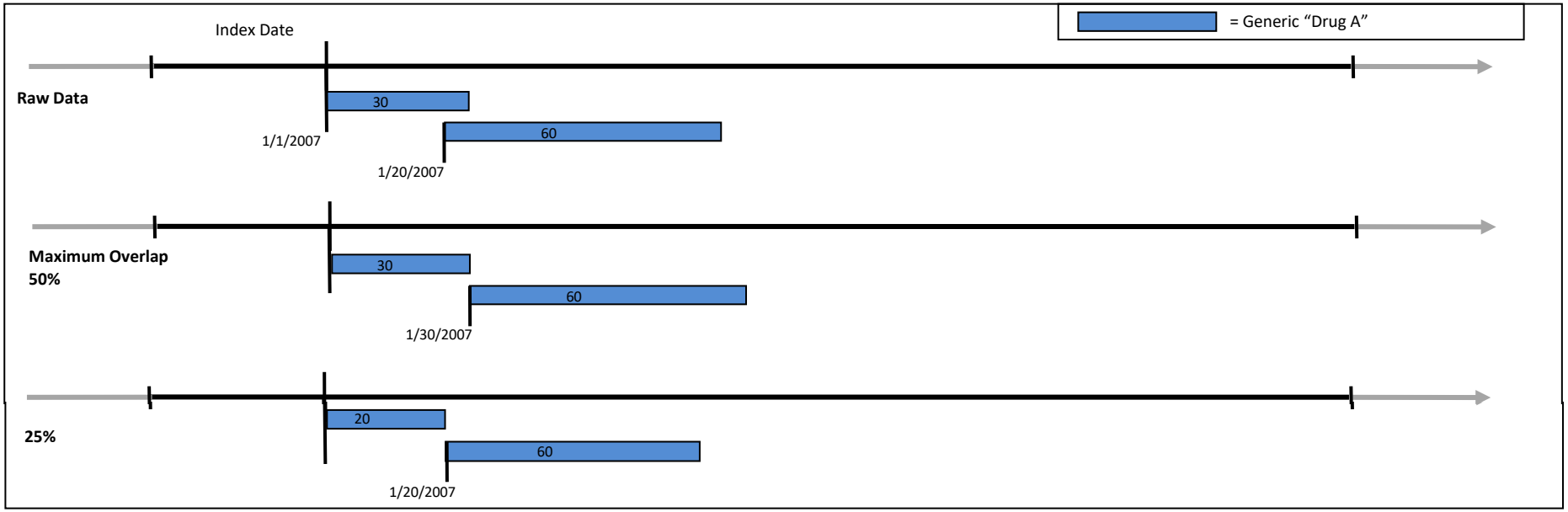
Appendix M. Specifications Defining Medical and Drug Utilization Parameters in this Request

Utilization			
Medical Utilization Evaluation Period Start	**Medical Utilization Evaluation Period End**	**Drug Utilization Evaluation Period Start**	**Drug Utilization Evaluation Period End**
-183 days	**-1 day**	-183 days	-1 day

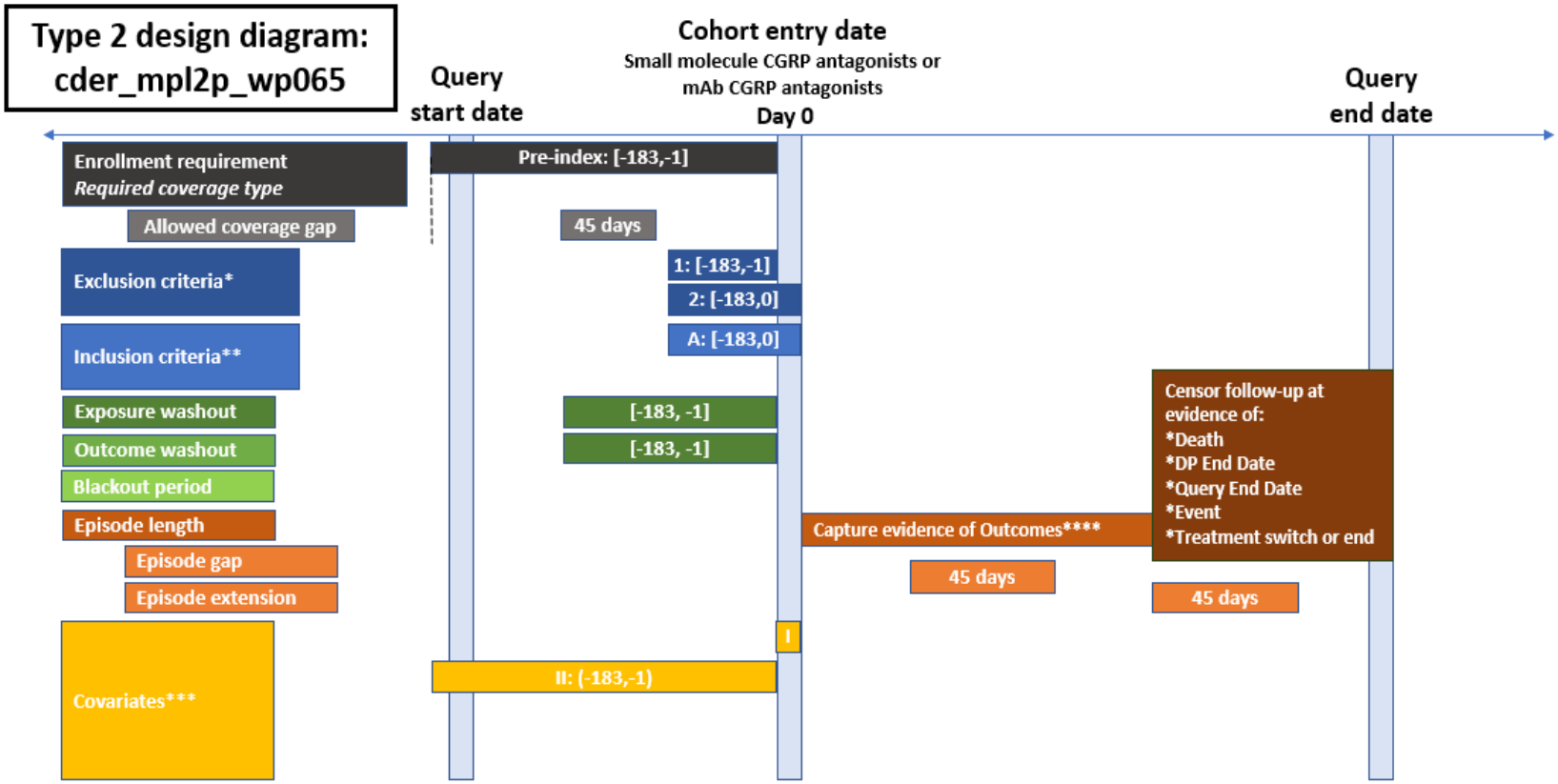
Appendix N. Specifications Defining Stockpiling Parameters in this Request

Stockpiling				
Name of Stockpiling Group within the Cohort	**Same Day Dispensing Processing Indicator**	**Range of Allowable Days Supplied Values**	**Range of Allowable Amount Supplied Values**	**Overlap Percentage Processing***
Gepants_CGRP	Adds All	0<-HIGH	0<-HIGH	No truncation will occur and any overlap of supply between dispensing will be corrected by pushing overlapping days supplied forward.
Onabotulinum	Adds All	0<-HIGH	0<-HIGH	No truncation will occur and any overlap of supply between dispensing will be corrected by pushing overlapping days supplied forward.
Triptans_DHE	Adds All	0<-HIGH	0<-HIGH	No truncation will occur and any overlap of supply between dispensing will be corrected by pushing overlapping days supplied forward.
mAb_CGRP	Adds All	0<-HIGH	0<-HIGH	No truncation will occur and any overlap of supply between dispensing will be corrected by pushing overlapping days supplied forward.
Stockpiling by Non-Proprietary name	**Adds All**	**0<-HIGH:** program will not consider days supplied values of 0 or less.	**0<-HIGH:** program will not consider days supplied values of 0 or less.	No truncation will occur and any overlap of supply between dispensing will be corrected by pushing overlapping days supplied forward.

Appendix N. Specifications Defining Stockpiling Parameters in this Request



Appendix O. Design Diagram of Cohort Entry Requirements and Index Exposure in this Request



***Exclusion Criteria**
Window 1: Cancer; GI Illness (for cohorts with GI-related outcomes) or Traumatic Brain Injury (for cohorts with Intentional Self Harm outcome); Serious gastrointestinal hypomotility, constipation, or GI dysmotility with serious complications (for cohorts with GI-related outcomes); Depression/Intentional Self Harm (for cohorts with Intentional Self Harm outcome)
Window 2: Comparator exposure

****Inclusion Criteria**
Window A: Migraine

*****Covariates:**
Window I: Age, year, race, sex
Window II: acute myocardial infarction, glaucoma, cataract, hip/pelvic fracture, Alzheimer's disease, atrial fibrillation, diabetes, hyperlipidemia, heart failure/non-ischemic heart disease, hypertension, ischemic heart disease, rheumatoid arthritis/osteoarthritis, stroke/transient ischemic attack, anemia, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disorder and bronchiectasis, osteoporosis, depression bipolar or other mood disorders, hypothyroidism, pneumonia, Parkinson's disease, and non-Alzheimer's dementia, sleep disorder, substance use disorder, anxiety, behavioral disorders, sympathomimetics/alpha-1 agonists, ergot derivatives and methysergide, triptans/ditans, antihypertensives, surgical procedures

******Outcomes**
1) Gastrointestinal hypomotility, constipation, or GI dysmotility with serious complications; 2) Constipation; 3) GI Hypomotility; 4) Paralytic ileus and intestinal obstruction without hernia; 5) Intentional Self Harm